

[illegible][illegible][illegible][illegible][illegible]

THE

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<210> 32397
<211> 369
<212> DNA
<213> Glycine max

<400> 32397

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aaaaaaggag agaaggaaaa ttttcacccc acgaaaagaa gagaggaaag ggaatttcca 180
atcaaagagt gcgagatagc aaaagaaaag aacgaaattc ccaatcaaag atgggaaaag 240
aataatgaga ggaggagaag gaaagaaact cctgacaatg atcgacagaa acagagaaat 300
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<210> 32398
<211> 409
<212> DNA
<213> Glycine max

<400> 32398

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attttccacc atggagatgc agcggaagat aaaggaaaag aggtgagagg aggcgccatc 120
cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
gcttgagat gatgcttcaa tggaggaaaa gaaagagaga ggggggagca cgacattgaa 240
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tagctgcaca agtggttacac atgcttctat ttatagacta cgtagcttcc ttgagaagct 360
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<210> 32399
<211> 206
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32399

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ccctatctca ataataata ctcctttccc tctcccacaa cacacataat gataaatggt 180
ctattaatga attgatgacc atgtgt 206

<210> 32400
<211> 368
<212> DNA
<213> Glycine max

<400> 32400

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acacctacat cttcaatctc tatattccac aatcattttt tctgccaat ttctccacat 240
cagactttgt agttgccata atcaccttgt tgaaccaacc ttttagatac aatcgccgc 300
caacacttgt cacaatcaca actatttgat taacttcacc caaataaatc ttactctatg 360
ataaaaaa 368

<210> 32401
<211> 373
<212> DNA
<213> Glycine max

<400> 32401

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aaggaaaatt tccaatcaaa gagggccaca ccacagagag aaggaatatt tccaatcaaa 180
ggaaaaaaa aagacgaaat gaaattccca atcaaagagt gggagaaagc gaatagataa 240
gaaagaacat tccaaccaa agagtgggag aaagtaatag gaaggaaaga aagctcctga 300
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gtacaataca gaa 373

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ttaagagcag	atgtccaaat	ctttgatgcc	atattttgac	ttcatcttct	ttggaggata	180
gacatgtgga	ggagtaactg	gtttcttgag	gtgtccatac	gtaacacttg	tcctttgatc	240
tgctgccctt	cattagaact	tcactcttct	cattcgctcan	caagcccttg	actttgtgaa	300
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<400> 32403

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gaaccaagaa caattcaaga gtcccatca gaatcaagat gagttcacgt ctcaagaaga	180
aagtctagag acaagaatta agattcaagg gtcacagatc tcaagaatca agatcaagat	240
t	241

<400> 32404

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tactacaatt	tatgatataa	cgattgacgg	ttaacatgag	ttattcacia	aagcgatggt	180

aacaaaagcg cggaggcatc attgtagtaa gaatacttac tgaacatcag ttacgtgcaa 240
 gaacctttat gtcttctaga caaggaaga gttttacaaa aaatcctttc tctcttatga 300
 cagaaccaca aactgagtt gatgccagt tcaataagtc atcttgatt 349

<210> 32405
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32405

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 ttagttgtga aagataatga atcaaaaact acatatataa aaaatgattt taaaaaatta 180
 tctcaaaaaa ttaaagtcaa aacttttgac gacaataata aatatatata tatatatata 240
 tatatatata tatatatata tatatatata tatatatata tattatctat catgatttat 300
 agtatattat aataagacta gaatatatat tcttattact tcattcttct ttaccaagag 360
 atataaaaat actctctatt atttcattct ttattactaa atgtacatac t 411

<210> 32406
 <211> 453
 <212> DNA
 <213> Glycine max
 <400> 32406

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 aatctgcctg aatgagacac ttgagagac agacatttcc atatagacta gccatagcct 120
 caaggacacg ctcttgaatt agtttgttgt cctgaggcct taaaagagtt actagaatat 180
 cctctatctg agttgcatca aaatgtttct catcaacatc aactttttcc tcaaagacca 240
 tgagtgtata agcaagagcg ccaattatat caccaactgg tgcctacggc gaggagaacg 300
 gaaagttctc caagatatag tattaaagca gacatgccac cacagatatt ggctaaagct 360
 cgagttgcat gtcctgcag agcctggcca ccatcacctt gcatacactc attagaagga 420
 gcaactatag cttccataac gattggaata cca 453

<210> 32407
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32407

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 tttcaggtga aaaagaggct aagttttgca cgcaaaaagt agcagttggg ctaagcgcat 180
 atccaccgct aagcgtaaag gagaatctgg cagagcatca acatcaaagt tgcgcgctag 240
 gcgcgagatc agtgtgctaa gcgcagcagg tgccttcagc caggcttagc acaagactag 300
 cgctaagcct aattccactt actcgcgcta agcgcgaggg tggcgctaag cgcaaggcca 360
 tgaattntga gcctatttaa agcctgtttt gtgcaaaatt aggggtacaga caca 414

<210> 32408
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32408

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 aatatttggg aagccataga aatagggcct tatataccca ccacagtaga aagagttaca 180
 atagatggta gttcatcaag tgaaagcata actatagaaa aacctacaga tagatgggtct 240
 gaagaggata gaaaacgagt acaatacaac ttanaagcca aaacctaata acatctgccc 300
 tggaatggat gaatatttca nggtttcaaa ttgtaagagt gctaacgaaa tgtgggacac 360
 tcttcgatta acacatgaag gaactacaaa tggtacatga tctcngataa atacactaac 420
 tcatgagtat gaattattta gaatgaat 448

<210> 32409
 <211> 149
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 32409
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 ttgcgaatat ctaattctac tcttaagtta agtaaaatgt agttttcaat acgtgagatt 120
 atctgttttg gttgatgcaa gctgatgat 149

<210> 32410
 <211> 103
 <212> DNA
 <213> Glycine max

<400> 32410
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 cggcgggagg gcgacgcgag attcgcggtt gcctcttcca aca 103

<210> 32411
 <211> 466
 <212> DNA
 <213> Glycine max

<400> 32411
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 aaatgagcta tgaaatctga agtttaatat tcaaatgata aaagttgata aaaatgcaca 120
 cacaatgcct ctatttatag cctaagtgtc acacaaaatt ggagagaaat tagaatttct 180
 attgaaaact cacttgaatt tgtggagcca aactctggag ccaaaatttc tctaattatg 240
 attagtgaat tatagctatg gtcagccca ctaaatcaa gatcaagtcc aagattccca 300
 ctaactatgc ttagtggcat gaagcatgta aagcatgaag cacatgcaca tagtgtgact 360
 atatgatgtg gcaatgcggt gtagcaagca aatgcttacc ttccaattca attaaatcta 420
 tttttcaaca cacacatcat atattcactt aatgcatgtg aaatta 466

<210> 32412
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 32412
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catgttataa cacattgtta actaggaaag ggtgggttctt tgggcatctc atctcaatct 120
 cataattaca tttgccatgc atagcatagc gtgccctaata cattcatctc tatgatatgt 180
 tgtcgaagta ttgacaatca aaatttcaat tcttggaatt atgggggtcga accaagcaca 240
 tgcttttaag aaaagggtttt catcaagtca aaatcaagta tggaagtaag tatgttgcaa 300
 aagttggggc agaagatgga tcgagtttac atagcttctt tggctactac caacacatga 360
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<210> 32413
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32413

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 aataaaagag ggagagaagt ggaactttga agtgtatctt ataagacttt cattcatcaa 120
 agttacaaca agtggttacac atgcttctat ttatagacta cgtagctctc ttgaaaagct 180
 ttcttaagaa aacttactta cgaagcttct ttgagaaaac ttccttgaga agctagagct 240
 taactacaca cacgcatcta aaaactaagc tcacctcctt gagaagcttc cttgagaagc 300
 agagcttaac tacataacc ctctaataac taagctcacc tacttaagaa gagaagctag 360
 agcttagcta cacacccta taatagctaa gctcaccctt atgacaaaat acatganaat 420
 acaaaacaaa ttctactaca aagactactc acaatgcctt gaaatac 467

<210> 32414
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32414

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 attttgtgga ccaaatttgg cttcgcccca gcagacaata gagttgcaac cactttctcc 120
 ctgaagatac aaatattaaa tcaaatacata agaaaatttt aattcaaagt tcaaacagtc 180
 tacttttccc aaaatcatgc taaatccaca ttgattatgt taatgtgcac ctttatgtag 240

ggaaaagaga aacagaaaag aacatgaatg gtgaaacccat gtcaaaaaat gattgttagg 300
tcaatgtagt tatagaaggg ctaatgggtt aaacaagtgg gatgtttgtg tattatacct 360
tccacaatat gttgcccaat gaagagctgt ncatccacac ctatcac 407

<210> 32415
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32415

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tgaggcaaat ggagagaatg agaaggaggg aggaacccat gctgtgactg tcgttcctag 120
atggccaaat ttcccaccag ctcaacaata tcaatactca tccaatatta gcccttctca 180
ttaccgcaa ccctatcaac caagaacact caatcatcca caaaggcaac ccctaaatca 240
tccaatacaa aacaccaccc ttaacataaa ccaaacacc aaccaaggaa gcagttttca 300
ccacagaaca tgtagaattc ccctcaattt tgggtgctga tgctaactta ctcccatatc 360
tacttaataa tgcaat 376

<210> 32416
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32416

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gaagcatgtg taacacttgt tgtaactttg atgaatgaaa gtcttatgag acacacttca 120
aagttccact tctctccttc ttttctactt caatttcgtg ctccccctt ctttctttct 180
tttctctat taaagcatct tcttcaagct tattatccaa ggcaattctt ggcgggtgaag 240
ctccttcttc cttggcttat tccctagtggt atggngccta ccctctctc ttctcctttg 300
ccttccgctg catctncatg gtttaaaatc accattgaag gacctcattg aagctcaaag 360
atccagcctc cataaaaagct ccacaatca 389

<210> 32417

<211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32417

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 aagacatgtt aatttaattg aataataaat gcgagtcctt attaggaggt gtgattaatt 120
 catttaatat aataaatggg cggattattc acggagtagt tgaagatttg atttattcta 180
 gactattact ttttgttgaa caactgacct caataactta agaggggggtg aattaattaa 240
 attttaaaat tttcccgcta acaaattnta accccctttt aaatgataca tctgtccact 300
 cagaatgcag aagaagaaga agaaacaatc aatttaataa tggtctttta aatgcgcaag 360
 acaaagtaaa ctgcaataaa ataactgaga taagggaaga gagaatcgca caatcatttt 420
 atact 425

<210> 32418
 <211> 287
 <212> DNA
 <213> Glycine max

 <400> 32418

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 tctcgttttg tttacttttt ataccctcct tttgacgtgg cttagccatt ttaactaagt 120
 cattttcttg ttaacctaaa aataaacccc ttcccacga atggttgaat tggattatcc 180
 attaacctcg ggtaaaatca actccgaccg cggtcggcca tgccgtaccc acgttggaaa 240
 ccaaaggagg taaaaaataa tataatattc aaaaatatct ctttatt 287

<210> 32419
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32419

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 tgtgatcatc tttttctctg tcattgaagg tgccacttga gctgtcaagt ccctccacct 120

ttaacacaaa tt

432

<210> 32422
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32422

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acagttaaca accgtcttta tatctaagt cattgaaagt taagactttt cagcagagtt 120
ctcacaaaac catcgtagaa aaccaactct cctaagacga ttcttttgta agaaccatct 180
aagatagtat atattctaaa aagaaccgtc ttacganaaa atcatcttag aatgtatacc 240
ttctaagacg tttcttaaaa agaaccgcct tataatgttc gatcctgtag agaatgaatt 300
ctgtggctac acttactagt gacaccagtt cgtaattatg tggttacacc aacatttc 358

<210> 32423
<211> 284
<212> DNA
<213> Glycine max

<400> 32423

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tctaatact cttctgttga ctgcacatat tgcataagagg atgggctgct cacctagacg 120
tcttctctgg ctgatacgat gaccagatgc acttccacta cgaatatgaa ctcttggtgg 180
agcgtagagg gaacaaatct cactgagtggt atccacgggc gccccaacag acatctgtaa 240
gggggggcta atatcgatta tatggaaagt aacttgacag gtgt 284

<210> 32424
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32424

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atatggagaa aaatgtgttt ttagtcttta tatttttgggt aaaatataat taagggttct 120

gtacctttat attgataaat ttaattttcc caactctaaa cggcgtgtat ttaatctctt 180
 ttattttctaa gatttcatta tatttttttaa agctattata tccataaatt gttaatccca 240
 tcgatactaa tttcgatcta cttatacaaaa atctcgattt aagctgcgaa agaaaaaaat 300
 aacatgtaat cgagagacaa gattctctag aagcgattag tcacttatac aaagatcaat 360
 atcagcaaaa ttagtgaata tttcatataa atactatgct aaaat 405

<210> 32425
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32425

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 tacatcctaa ataagtaaca gggactgcta gctgcaataa cgtgtgtcga tgaagaatgg 180
 atattgttgg atgcctgcta cattagaatc gcctatggcg ttgaacgctt atttaatatg 240
 aattttataa taagcgtggg aaaaatatta atttataata atataaagct tttnttcgca 300
 gattacatgt accattacaa taatttaata cacatgttgt aattatagag aaatacatat 360
 tcgtattcat acataggggt gagaataggc caggccaggc ttgaaaggc ctgagcttag 420
 cctacgatga atctttgagg catgagcctg acctatagac ta 462

<210> 32426
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32426

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 tctcctcttt gacatctgcc gatccttctg gaagggttct gacanttggt aaatccccca 180
 gaatgcacca caatcctcca ttatgagaac tttntagttg ctttatgttc tcccatagac 240
 ttctcttgct ctgaacatca caaggtgaat aaatgtttac aatatgcacc tgggtgagccc 300

tcttaagcca ttgacctacc aataagataa agcactgcct atgac

345

<210> 32427
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32427

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aaacaaatca aacgtaacaa gacaattata gttgttgttt gaataacctca cccactcaag 120
tgtatcacac aattatggct tttctctaata gaaaacactc ttgcctttta ccactctaata 180
tcccccttgag ttcttaagca attcaagaga ttatggccac agcaaagaac aattcaccaa 240
tatgtgtaag gtaaggctag agagacaagg aaaagggttaa ccaagaaaaa ggctaacctg 300
cctctaggca caatgaagga aataaaattt agaatttaag aattcaagta acaatccttc 360
atacaaccaa tatattacct tanagagatt ntttttttta aaacanaagt tcttcaagca 420
tgaaccattc 430

<210> 32428
<211> 411
<212> DNA
<213> Glycine max

<400> 32428

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aaggtggaca tgcttttggg tttgcatgtg aggtctaaca tgtcagggtga ggggaagcctg 120
tatatttggc aactctgtcc ttttctaact ctggagaatg cattgaagac aaactttatg 180
ttttgtctgt taatgcagtt gcgtgtagtg cacacgtagt actcttgac acgtgtcact 240
cgtggagtgg gcacgtacta aatacgtgtt gcgtgggata tgaagttgtt ttgtgggtctc 300
ctcttgccag tgaccaccgt cacttcaaata ttctatcttc tttctctoga agtataagtt 360
ttccctcacc tacacagcaa gtgtcgctgc agacgccagg tgaagctagc a 411

<210> 32429
<211> 469
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32429

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cccttttcctt gttttgaagc tcactacaag ccttaagtga aaaaccatga tattaccata 120

tccttaagga attttggagc tttggaattg ttttggaat aagtgtgggg gggtttttgt 180

ttcattggac aacttgtttt gttggctatg cttcatgatg tttttgggc catacttgat 240

gtacattgta tattgggttaa atgttggaca tgctgaatga aatgttggtt ctcanagctc 300

cacagtaaaa aataaaaaaa aatcgaaaaa aaaaaatcga ataaaaaaag aacaagaaca 360

gcaataaagt tgagtgaata agatcttaaa tggcacaaga atgatgaaac tctcggctct 420

actcttcatt gttacatttt atctttactt ctctttattt ttttcttaa 469

<210> 32430

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32430

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ggtaatatgt actactcaat cttgacaaac ctctcaaga aggcacttga tctgattaatg 120

accgggactt accaaatgtc acttgctcaa gggaccacaga atcgaatccc acccaacctt 180

gcgatagggtg aaagagggaa atgtgaccat cgagtaaaca cttgaaagaa aaagtgttat 240

tatttcatta atcaaaataa ggatacatta ttccctgggt cggatggatg tgaccctcga 300

gtatcctaaa aacatcttaa caagaaaaga cctaatacatt atgctttgta tgacaacatt 360

ntaatgtgtc ttaacaaagt aacatagagt gttaaagct 399

<210> 32431

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32431

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caccattcta actgtttctg catgttttca cgaatcttgt gcattgggac atgccccgc 300
 cttcatctca tacctgtaaa gtaacttaaa gtaaaaaata taccatca tcttcaagat 360
 atattgatgg taatatcgcc tcacatgatg a 391

<210> 32434
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 32434

agcttgcttg atttacatct cactctatct caagcgaatt cttctttata tcatgaaaat 60
 cctcatgatt tacattctcc ccttttttga tgatgacaac cacctgtatg ataggagcaa 120
 caacaaagac aatatctata tgcaccccc cgactccgct tgggttacia tgatcgctta 180
 tatgaaacia ttgacgattc catatttttc atatataaaa agtcgtctca taaaaaatag 240
 ataatttt 248

<210> 32435
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32435

tgtaagcctt ggatcttctt catcaaagga gtcctttgct tcttgaatat caatggcagc 60
 ggaatggaga agaagaggag ttgagaggag acgccacttc aacgagaaga tgagtcaaga 120
 agaagctcac caccatggcc tctatatata gcctaagtgt cacacaaaat tggagggaaa 180
 tttgaatttc tattcaaatt tcacttgaat ttgaaattga atttgtggag ccaaaatttc 240
 actaattatg actagtgaat tctagctatg gtccagccca ctaatnaag atccccctcc 300
 agattctcca taagtgtgct taagtgtcat gaggcattga aagcatgaac gatgtgcaca 360
 cagtgtgact atatgatgcg gcaatggtgt gtatcatgca catgcttcac ctccccctca 420
 caatttaatt gga 433

<210> 32436
 <211> 96
 <212> DNA
 <213> Glycine max

<400> 32436
 agctttgttt catattttct ggaggagtgc ggcattgttt cttgagaagc ctctacatgc 60
 acgagagtct ggccttggct tgaagctttt gcatgt 96

<210> 32437
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 32437
 tgcgactcta ggccatttct atataactag cgcacttaaa atgttgtgac ttctgaaaca 60
 atcttcacaa acaagtcact tgaagaattg tgactttctgg aaatgtactt tttgaaatca 120
 cccactggta atcgattagc atcaaggagt catcgattac acatcaacat atgtgactct 180
 tcgtttttaa ttgcgaaaat caaaacgttc acaagctctg gtaatagatt acaaatattg 240
 tgtaatccat gacacagata taaagtaatt ggaaaatgtt tatacaga 288

<210> 32438
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 32438
 agcttttatat ttagacttta aacactttgt tttgttttgt aaacaacaat ttggaagaaa 60
 gaaagataca taaaatgtat ttttttttaa atgtcttctg ttgtacaatg gtttggaaaa 120
 gtataagaga aagcaaaaat aaaacacctc ggaccctaata ccttaattt ctctcgatag 180
 actgagacca agaaagaagg gggaaaacaa aattatctat tagaaaatga tcatatttat 240
 taaatcttaa cgacataatt atctatatatt aagaagaaat ttttttggtt ctcttcatgt 300
 taaatgtttt ttgtgaataa tacaggtttt gatgatacta agattctgaa tgtgtaatca 360
 actatcattg atgtgtaatc gattaccagt aacggaac 398

<210> 32439
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 32439

tccgaatcca gagatgacag ttactctgaa caccctgcat tnttgctgng acaccaaca 60

acacaatgaa agggctaaaa tacctttcac cttttctagg gatcggcggt ccgtatccgt 120

atgactcata caaattggcg atctgtataa atttttctta actcatacaa attgttgatt 180

cgtagtcata cggattgtta atccatatat ccatacagat catcaatctg tataatcata 240

cacattgtca atccgcatgt ttttaactgtn taacaattat ttttctaaan atctccattc 300

attgactatt acaaaatctg ataattaaac aaatttgata ttttaattgaa tgacgta 357

<210> 32440

<211> 323

<212> DNA

<213> Glycine max

<400> 32440

agctttatgg tgaatcaaag gtgattcaaa ggtgttttga tgataacaat gatgataaca 60

aaaggtgatg acaaatgtga tgacaaaaag ctcaaagatc aatcatagaa caactaaagt 120

gaaccaagaa caattcaaga gttccgatca gaatcaagaa gagttcaagt ctcaagaaga 180

aagtctagag acaagaatca agattcaagg ttcaaagatc tcaagaatca agatcaagat 240

tcaagactca cgattcaaga atgaatagaa gactcaatcc tgatcaatat tagaaagttt 300

gtcccaactt tgaatatcac atg 323

<210> 32441

<211> 257

<212> DNA

<213> Glycine max

<400> 32441

tcaccactat ctcttgatgt cacaaacggt gaccatgtcg gacttggtag cgtcatcgac 60

cgagagaatg acgttggttag cacgggggagc gaggattgaa cagtactaac tgatgcacta 120

ctacaatatt tagatataac atcggacggt taacatgagt tattcacaaa agcgatgtta 180

acaaaagcgc ggaggcattc ttgctagata aaatacttac ttaacatcag ttacgcgcaa 240

gaacctttat gtctttct 257

<210> 32442

atataggcca agttgatgac cggcctcagg ctctataag aagtaagagc atcagatcca 240
 actctccttg tctgcacaa ggctatgatt aaagctggga agcctaggcg agaagagttg 300
 gaatgagcca taatggttat ctatccaaag atcaagccgc caatgttcat gtccatcctt 360
 gtgactaagc catanaccaa cctagctctg tccatattca agtctg 406

<210> 32445
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32445

tggtcaaccc tntatgcaat ggaaaacaag ttgatgaatc caagcaatca caagcaagat 60
 ggtcttgact aaatgcanaa gtaaacagaa naacaattaa attaaaaaaa actaaaggaa 120
 aagttggggt gcctcccagt aagtgttct ttaatgtcat tagcttgaca agtcaaagtc 180
 cttaagggtg gcatgaaggc cacatagaac acatcttctt tgcagtttcg ctttttagct 240
 agaaattcca tgaactttat gtattttgga agcacattcc aattcattgc aatagagggtg 300
 cggatgatcaa ggaaggatga cacttaaggc tntcttatgt tctccctacc tttcttctt 360
 gacaatcagt tgacgaggaa aggtattgat ttggagaata ctttcttggt gattntctac 420
 tggtgagtac tccccccat 439

<210> 32446
 <211> 362
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32446

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 tttggcagtt ttttacatga atgggattca gggttggtt aatcgtaagt gggacctaag 120
 gcaaatttta agaaaactat tttagttcga gagaaattat atagtaggtc ttttttggtta 180
 acatccgagt atttgtagat tatatagtag gtctttttcc agagtttgaa tgtgctcatg 240
 aagttcatca atatctgttg tcaatcatta taccactctg ggacgatact ntagtttcca 300
 agctgattac tttgttcagt agctcatcaa tctgctctgc catttttgca cgctgagtga 360

tg

362

<210> 32447
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32447

taacgcattn tacctctaag ggtcttgtaa ttgcataatg gtggtcagtc tctcgatggt 60
 cccaccatgg tatagcttca atctctgacc atttactatc catgtttctgt gcggagtttc 120
 tgactgaggg tcaagtaatt ccacaactcc atatggcttg acttccttca tggatgaatgg 180
 tccagactat ttagacttta atttgcttgg aaacaacttt aatcttgagt tgaacagcag 240
 cacttgttgt cctggcctan agtccttctt tagcagcttc ttgtcatgat aagccttcgt 300
 ttttctttgt acagctgaaa gactcataag cattcaatct catctcttcc agctccaaga 360
 gttgcaactt cctcttttcc cctaatagag cctcatcaaa attcaggaat ttcanagccc 420
 agtatgcctt atgttcatt tctac 445

<210> 32448
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32448

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 cacaaacacc aacactatth gtacacacga tgagttgaaa agggggcccta taccggggtc 120
 catgggaaca taaggagtgg aggtgaactg cgggtcatgct gggtcactga cttgcttgat 180
 aacagtgaac cctcatctag agttttttct tttgatagca tgtgggttgc ggtagtcctt 240
 actgccgcaa tatgtttttt cgaagggcac gatacctcta gaaaccatca agagagatat 300
 gaccaccttg ggaattatca ctaanagcct tttagttcct tccgtttagg tcaactaanat 360
 agggggcacga agtgaccacg ctgcgtgcct tttaaacact gccatgc 407

<210> 32449
 <211> 441

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32449

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 agtactttgg atttggccg accatgccct cctgatttcc agctgggaaa ttggcgagt 120
 gaggaacgcc ccggcattta cgcaacaagc ataatgtaaa cctttacggg tttaaaagct 180
 ctatagttgg gcttaggctt tagagttttc attctgttaa agctttgtgt cttttgcttt 240
 tgaattcata atacaaggat ctttcttcat ctgttctgg tctctacca ttctcttcat 300
 ttgcatgttt attcttntc taaaacggca gattcgatga cgagtcccc gaaggtacta 360
 atacctgnga cccgtctatc aacttcgagc aagaaatgaa tcanacggaa gatgaaggag 420
 atgacgatgt gggacttct t 441

<210> 32450
 <211> 369
 <212> DNA
 <213> Glycine max

 <400> 32450

 agcttaaaca ttcactttcg agcctcactt caacattcaa tttcgagcgt ctcgatatat 60
 gacgggactc aatcagacat ccgagtaaaa agttattgtc gcttgaaatg gctcagagct 120
 tcaacattca atttcgagcg tcccgatcgc tcacggcact caatcagaca tccgagttaa 180
 aagttattgt catttgaatt ggctcagagc ttcaacattc aatttcgagg gtctcgatat 240
 attacgggac tcaatcagac atccgagaaa aacgttattg ccgtttgaat tggctcagag 300
 gttcaacatt caatctcgag cgtctcgata tattacggga ctcaatcaga catccgagaa 360
 ataaattat 369

<210> 32451
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32451

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acctctgagc attttcaaac gacaataacg ttttactcgg atgtctgatt gaggccccgta 120
 atatagcgag acgctcaaaa ttgaatgttg aacctctaag ccaattaaaa cgacaataac 180
 tttttaatcg gatgtctgat tgagtcccggt aatatatcca gacctcnaa attgaatgtt 240
 gaagctctaa gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcgcg 300
 cactataacg agacctcgaa atgaatgtta acctctgacc aattaaacga cataactatt 360
 tactcggatg ctgattgagt cccgaatata tcaacctcgg aattaatgtg 410

<210> 32452
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32452

agctntagtg ggatggtaat aattactttc aattcacata tttctaaggc tgaaagcaaa 60
 acatttgagc tttcatgcat gtgtcaatga taggcttggtc gtcatacttt tgtaattgta 120
 gctttaagtt gtatttttgt gtgatcatct ttgtaaatag caattcttat tagcttgtaa 180
 tcttattttt gttggttcta atacctttga gggggagatg aaaggaatcc aaagttgggt 240
 agaggtgcat taagagataa tagttatacc tattcctagt tatgattctt ttttaattcaa 300
 aactcagcct ttctggatta tacaatatct ttttctatct tgctttctgc ttgngttaat 360
 aacaaatfff catctcaaca acttaactta agttttttgt ctaatatta 409

<210> 32453
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32453

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 attagaacaa acaataaaga aaaaatgtat gggctgggtt tatctattta tagaagattt 120
 tgagtgaat tataagattt taaagtttat gaaatcaata gtattctggt tgatgccaat 180
 agaaaccagg taaaaatcaa atccttttta tctcaacaat tataaagtc tggcttcaaa 240
 tgaaggaaag cattgctctg cctataggta attcttggtc tactgtattg taatgttctt 300

tctgtttgca tgtgaatata ttcaagtttt atggttttgg gttctttctct ttacatctca 360
agtttatata tctgtacgaa aataacat 388

<210> 32454
<211> 374
<212> DNA
<213> Glycine max

<400> 32454

agcttcttat ccaaggcatt tcttggtggt gaagctcctt ctctcttgge ttattcccta 60
gtggatggtg tctccactct cctcttctcc ttttcttcc gctacatctc catggtgtaa 120
aatcaccatt gaatgacctc attgcgctca cagatccatc ctctatagaa gctgcacaag 180
caagcttcca tcaatagtagc tcgcttagcg cacagccgag cttagttagt tcaacaaata 240
actcaacaga gaagatgaac gcgcttaatc ttcaacagaa gcgatgaact cgcttagcac 300
agcaaggcac atagcgagtt catcgtgatt tccagaacac taggggtttc tcaccccttc 360
tcataggccc ctat 374

<210> 32455
<211> 403
<212> DNA
<213> Glycine max

<400> 32455

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atgatttttg tatcaatctc tgaattttac aatgaaatgc ataaatgtgg atatgatgaa 120
ggccattatt gttgtatata caagccactt gacccaaagc ttacctatctt attaatgatg 180
atatcatttg cgcccatctt tgagctgaat cgtaattgtc aagctgaacc ctgagctctg 240
aaattattat ctccatttac cttgcttagc ttttaggaga gcacattgag ttacaccatc 300
ttgcccctga ttgaggaggt attttgatg gataaattta aagaagtcta aactttgaag 360
cttaattctc aaatgatcga agttgacaaa atacatacac atg 403

<210> 32456
<211> 397
<212> DNA
<213> Glycine max

[illegible]

<210>	32457
<211>	452
<212>	DNA
<213>	Glycine max

tctcccncaa	ttntctataa	atagggggag	aagtgaagtg	aataagggtt	cggtcacctta	60
ggcactttctc	tctcttttoga	atttgcttgg	aaaaattggt	tccgtgaaga	aaatccaagc	120
cgaggcgctt	ctgaaacatt	tctgtaacgt	ttctatgagg	aatttcgcga	aggtttcgac	180
cgttctttoga	tgttcttcat	tcgtttcttca	ttgtttcttca	gtcttcaacg	ggtaactacc	240
ttgaaccaag	cttttcgatt	ctttctatgt	acccgtagtg	gtccacattt	ggtctctcgc	300
tttttattct	gtttcattta	ctttttatac	ccncttttga	cgtgcttaag	ccattntatt	360
taagtcattt	ctcgcttaac	ctaacaataa	aataaatttc	caccgatcgt	ttgaattgta	420
ttatccatta	acttcggcta	anatgaattc	cg			452

<210>	32458
<211>	230
<212>	DNA
<213>	Glycine max

atgttagcga tatgtaaaga tgatggtact cgtacttacg atctgggtccg accatgccgt 60
cctgatatcc agctgagaaa ttggcgagtg gatgaacagc gcggcattct ccaacgagca 120

taatgtaaac ctttacggat ataaaagctc tatatgtggg cctatgcttt atagtcatca 180
 ttttgctaag gcttcgagac ttttgtgtac gaattcataa taccaagatc 230

<210> 32459
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 32459

attacgtgaa ctatagaacc tcaagcttga gtattgctgc attctactaa tatatggaat 60
 tgttcactgc tttgcctgag aataacaatt gcttgaccac aacagcgctg gatgcggcaa 120
 gggacaatgg tctttcaaat aaacctgctg tacatgaaca aacattatat catgcgctga 180
 ccgtgcctaa cgaaccagcg aagtcattgc ataattgcta tactaactat attcaatgta 240
 cctgaacaaa atgatttcca aacacgtgac cgacacatat gatgaggtgg ccagaagaat 300
 gaggtg 306

<210> 32460
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32460

acttgagtnn agccttattt ntacattcaa ttggcgagcg cctccatcta tgacgtgact 60
 ccatcagaca tgctagtcaa tagcttctga ctgatcgtaa tggctgatac cttcagcact 120
 aaagctcaat tgtcgtggat ccctgcccc ctccgccaga ctttctggta gtgagtgttc 180
 gagactcgta gtgcctcaga gatctagcat tctacttcaa gtggctagga ttattggggc 240
 acttgtgccg aaatgaccga tgataagtgc ttccgnggaa ttccttccta cgcttaacgt 300
 cggcttcacg gcgtcgccg attttgccgg attccttgaa cctgccactt tataaccact 360
 ctccctcgct ttgctccatg gtcacctga ctttccccg 399

<210> 32461
 <211> 375
 <212> DNA
 <213> Glycine max

<400>	32462
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<223>      unsure at all n locations
<400>      32463
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tgagatgaag atgtgcaaag caacaaggag gaccctaataa ggtgcatata gagaattcaa 240
aaccttataa taaataactaa ccgattgaca aacgaacgaa gaacgatgta ngactgatca 300
cggtgtgat cggaagtgcc tcggcctcat tntttttctt ctttctcctt ctccttaatt 360
tactaaatg ctgtcaatat atgaaggttg tatccctttc ttcagcccca tcatgactat 420
ttataggana tgaggngact tgtttgatct 450

<210> 32464
<211> 320
<212> DNA
<213> Glycine max

<400> 32464

agcttgactt gagatataat ctatctcagc tatattccca tttgtgcaag acttgactg 60
cacaccgagt cgcagtgtaa tttatctttg tgtgagggtt atgttgagta catgtatcct 120
gagggagatt agaacaataa ttccacgcgc tcgcgcgtca tctagacatt taagataaga 180
tgtataagtg tcggcaaata gcacttttta ccatttttgc atatgtccac tatatccatt 240
aatggctaac aattcaaaag caaaactacg cacttatggg aagctgatgc atgaacgcta 300
tgacctattc aatggtcatt 320

<210> 32465
<211> 347
<212> DNA
<213> Glycine max

<400> 32465

ttgcataccc caaggatcca tcagtatatt acttgtgaaa tatagccacg agggcggggt 60
cataggccac tttgggatac ataagaccct tgtcatactc agagacaagt tttattggcc 120
ccgtgtgaag aatgatatcc ataagctttg cactatgtgc gtggcttgtc tacaagccaa 180
gtctacgggtg atgcctcatg ggctatacac acccttacc atcccatctg caccttgagt 240
aaacattagc atggacttct gccttggggt atctagaacc caaagagccc gcactctctc 300
tttggcggtt ggataggttt atcaagatgg ctactttat accatgc 347

<210> 32466
<211> 399
<212> DNA

<213> Glycine max
 <400> 32466

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agcagatccc aacggtcata aggtagtttt atgtgctaga gacttccagt aaaattttcg 60
agtcgatcca acggttaaca aattggaacg aagagaatat tactggggta tttgagtgtg 120
aaaagctgtg atgttgggca gactttctac ctctgcccgg ttttcttggc tgtgttagtt 180
catgatgctt ggatgttgaa ttacttggat gttgtggaag cttgggagga ttgatgggga 240
cccggcgttg agaggaacga ggataagggc tacgtgggag tacgtgagct cagttgaggt 300
gggcaacagg ggatggtggg tttatgcgtg atttgtggat gtggagaaat tgtttgcacc 360
atcgcccgac cgccatctag tagcacatgt gatgggtac 399

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<210> 32467
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32467

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ttatagcagc tactgcaatc tgaacgtgcc caaacgaatc acttaacatt aatagcacgt 120
tcaccacaaa gaaaattcga ccgttgctc acacgcccct ctacattctt cattcaaatt 180
tatatctgct tggcattcgt gtttttacca gcatttccca atagccttct gagatttacg 240
aaatcattcc aaacgctctg cttttccatg gctacctcac caaaagaact tccgctcctg 300
gtcaccgct gtaccatcat ctccgcacca ggaacaacca gaattcaaca tccaacccat 360
acaaataatt cctgggcaag cttctgtccc tgagaaactg gttccagaag acaac 415

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<210> 32468
 <211> 309
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32468

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agctttatta cattctctct tggtccttac cattttctga atacttccct tccaccacca 60
agattcctta tctcagtcga aaacttcttg attcactgaa gactacttta ccaaccattc 120

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tatccttctt agaaacctna tctcaaacgc gccacccgct accttgatgat gctcaattac 180
 cttcctccaa taatttcttc tttaaagaca agtggtttctc acccttgagc tgccatcact 240
 tgattctcga atctgtaact tgccgaatat tttgtgtact actcttaaca ccaatatcaa 300
 ggatcaaga 309

<210> 32469
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32469

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 tcgttaccgg atgagaagat gaaaggtcta ccaccaacgg gaaggcatag gtccacttct 120
 atttcacaag tggaaaaggt cacattgctt cattatgagt gacattttaa atttaactta 180
 agctgttaat ataaaataaa atcaatggtt cagattacaa ataactcttt atacttactc 240
 nctacagtaa gtagatcccc tcccatatat atatgaagta aaaatagcaa cttttgcaaa 300
 aaaataatac tgcccacctc attattacta tattatctac atctatgact atatctatat 360
 acattacaat tgaggattca tctcacaacc catcttgta cctatcttcc tatgcgcttg 420
 aatttttctg cattcaaaat attaaaacta gtccatta 458

<210> 32470
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32470

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 cttctttttt gtacattata ataactgaaa gtccaatgac cttgattata tatacttttt 120
 ttaatgaaat agtgaaatag gttgagcgcc tatcctttta tttctgagta aacttctcta 180
 cactaagaag agtaagttgc taaagtatcc attttcttta gagagccaaa agtaagtctt 240
 ttctctattg ggcttccaaa tatgttgaga catttctaag gtgaacaact gaacatacaa 300
 gacaccaat gttttcttgt ttctggtctt tntaattctc cttgtgttgt gtgattgctt 360

cccaatgatt agtttagttt gctataccga tatttttgat aca

403

<210> 32471
<211> 476
<212> DNA
<213> Glycine max

<400> 32471

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aatatgataa cggacaaatg caggaacgat atgttcatta tgatgttatg aagagatgct 120
tatgcatgac atgatatgaa tgcattttac ggacacgaga gcccggaata ttatctcttc 180
ttacttgccg atttgggggc gcagtgcacc atgtgtatag ttaagaaggt gatatggacc 240
ttccggctta ccatgacaaa ggacgagacc aacatacaat gcatgctaga gataaaatgc 300
gggagtgcac gactcgcact gattttggag aaaaacgtgg gataaactca tcttattcaa 360
aaagttataa ctagtcaaga tctgagcgat aatacaaaact tcttagtgcg ttctaactcat 420
atgggtccatt aagtctatca tatgctgaca atagctgaga agtcgcgga tcttct 476

<210> 32472
<211> 300
<212> DNA
<213> Glycine max

<400> 32472

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cagaggagtg gacaaagggc cttgtggggt atgaggaacc catatgagag aagcgaattg 120
atgttgaggg aattgttgcc ataagggccc ctgcaccgac ctacagagag gggaatgggt 180
atgaagaatt gcgcgccaca agttaagatt ctgagtcatg actcgggtggg tgggttcgtg 240
actcactgcg ggtggaactc ggtgttgga gcggtctctt ggggtgtgcc tatggcgctg 300

<210> 32473
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32473

tgctcgtgcg gcttctatgg aggctggatt cttgagcttc attgggggtcc tttaatgggt 60

atcccccatc atggagatgc agcggaagac aaatgaacag aggcgagagg aggcgttatc 120
 cattaaggaa taagccatgg aagaaagagc ttcacctca agatgagcct tggataagaa 180
 gcttgagat gatgcttcaa tggaggaaaa gaatgataga gagaaataca gacgaggag 240
 catgaaattg aacgatcaac accagagaga tgttgaactt tgagttgtgt ntnanaactt 300
 cctccctcct ctcagtccac aagtgtacac atgctttag tatagactac gtagcttcct 360
 tgagaagctc tctt 374

<210> 32474
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 32474
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 cagtttgatt agttcacccc catttttctg attctgctca tttccttttg aaacgttgcg 120
 aaactttacg gattacacgg cgaaaagtcc cagcatctca acttcgctga caagaattaa 180
 atggttgtaa acaacgtccc agatgatatt atgtgtgaac ataataattaa tgatgaatca 240
 tcatctcaca taacaccatt gtttc 265

<210> 32475
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 32475
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 aaaaaggatga aaacagggtt gacacatttc ccctcagctt gcaacttttg cagataaaaa 120
 acaacaaatg aataaaagga aatgaaataa cattggagat aaaataaacc ctaaagcctc 180
 ttcatatacc gaagcatcat gggcagcatt tgaatatgca agagcagtgt ttccacaata 240
 gacatcctag ttgtgaagag agtgaggatg aaagagaaga gaacaaatga gaaagtgaca 300
 ctacagtata gaaaaaaaaa ggagaaagca agtacaagaa gagaaggaga atgaccaagg 360
 ataagagaga agagaacacg gattagaacg agagagatag agaagacaac tatcatggaa 420
 ggtgatgaca acaaaagtaa cgctaacaac tgttcat 457

<210> 32476
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 32476

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 atttaaccga tgcactcaaa ggagttatga taaatatcat ctatgcaact cttattaagt 120
 gttggagaag taaacaatgg gggaattcac tctgctaaga cttaaaatga ttctgaccca 180
 actctgttac ataaatattg aaaagaactt aattattgga tttctatgaa tcatttgatc 240
 gactaaatc 249

<210> 32477
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32477

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 ccgtcatctg agaatcgtag catcgatgaat cgtctatgct taccactata tcgcactcag 120
 cgcactctatt agtggtgtga gtgaacaaga acatcttcta cgatttatta acatttcttc 180
 agaaggcaac aactctcgtg ttttacattg attacatgcc ttacagttaa tcgatcgcac 240
 aaagatgctt taaggcttat anaacntata cctccgtatc gattcgaatg aattacaacc 300
 ttatcgtaat caattacaca gttgcttttt cgcccctgac tgattcatcc acagtctnta 360
 ttttaatcga ttacnatgtg atataatcga ctacttctc 399

<210> 32478
 <211> 226
 <212> DNA
 <213> Glycine max

<400> 32478

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 ttctcttctc cctttgccaa aacgaattct ccaaggacta accgcctgaa ttctttttgc 120

gtctctcttc tccctctttc aaaagccccc cgcaccccca cctgaatcct ttggtgtctc 180
ccttctccat tgtccaagaa ttcaaaatga aacagtttga gaattc 226

<210> 32479
<211> 290
<212> DNA
<213> Glycine max

<400> 32479

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atggcgccctc ctttcacctc ttttcctttg tcttcgccta catctgcatg gcggaaaatc 120
accattaact gaccccatg aagctcatca gatacacgct ccatataatc cccacaagca 180
tgtttccatc agaatgtcca cgtttttata gggctacact cccatgcctc tctaggacta 240
cacgcctcgc ccttaggagg actacacatg ctacctttag aggactatag 290

<210> 32480
<211> 90
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32480

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acttaccgt gatgatcgaa gaacgatgaa 90

<210> 32481
<211> 577
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32481

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actcacagct atatgcgcgg tggaatgac tgcgacggat cacactctgc ttatatctat 120
cttcgcagct acagacaatg tgcgaacgaa gagtccactg atcgcatcac tagagcagca 180
acatgcgttt tagtctagcg atatctgcat acttgcatcg aagagatggt tctctcattt 240
tggcattaga gatacgactc acatgatcga tcctcccgat gagcctctct caaccattac 300

ggaggtcacc tctgttcaca cgaggtgaga ctctctcaact acactactca gctcttattg 360
 catacttact tcgactacag gaagcgaaac ataagagttt ntntcccgcc ctctacaccg 420
 tctcactcct gataaataag ggtctgtatt gagngcatt cagaggccat gtgacctctg 480
 acaagacact tgaacatct tatgatgata gccctttttt gcgagctagg ctaaagggtg 540
 atttctctat cgctcacc tgatctgtcg tgagttt 577

<210> 32482
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 32482
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 actatctctt gcgcattgat cacaccggac aagcccagtg ccttctgctc tctgatcccc 120
 accacgaggt actcaatcaa ctaaaacgcg cctcctcgc taacactgag tttcagacac 180
 agaagaaagc tattcaagct caccagagg atcacgctca cttcaccatg gccaatgagc 240
 tcattttctt aaagaatgcc atctggattg actctagcaa tccattcatt cctgcattag 300
 tacatgagta ccacgaacc actctcggag gtcactttgg tgtcaagaag accctccacc 360
 atgttcgctc taatttcag tggaccacca tg 392

<210> 32483
 <211> 282
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32483
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 gcgtagcctg cgtgtacaag aacgggttgt gaatggaaag taccttgggc tgctatacgt 120
 gataagctaa aataacaaat tcaccttagc atatataaga gatagattgt ggagaagcct 180
 tcaatgtagg aagagcattc ctttggccaa tgctgcccgt gaggccttaa taaacgcaat 240
 agctcaagca atcgccaagt attgcatgag aatctatctc tt 282

<210> 32484
 <211> 387

<212> DNA
<213> Glycine max

<400> 32484

agcttcatgt tgctcattga ctccaaatta ctgcaaggaa ggacatagat cagtatggtg 60
atctgcagaa gaacatagac cacaaactct tgcaacaagg gaaaatgcaa atatctaatt 120
catggcaagc tgagttacta ggtggccaac gcatcaagtt ttccttcaag ctttttattt 180
acagtggatg aagatgaata tgtggccacc tcatggactc ctttaaggac aatagcatca 240
tttcttgcac tgaattgttg ggagttggaa gccatcttct caatcaacat tctagcctca 300
gtaggggtca taccaccaag ggctccacca ctagcagcat caatcatact cctctccatg 360
ttgctaagtt actcatataa atattgc 387

<210> 32485
<211> 284
<212> DNA
<213> Glycine max

<400> 32485

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tctttccttg ttctgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
ccttaaagaa ttttggagct ttggaattgt tttgggaata agtgcggggg gtttttgctt 180
cattggacaa cttgctttgt tgactatgct tcatgatgta ttttgcgcca tacttgatgt 240
acattgcata ttgagtaa atgttgacatg ctgaatgaaa tggt 284

<210> 32486
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32486

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tatgaattaa tagttcaa ataaaaatta aattgaagga aattaatata ttaagattca 120
acgataaata ctttcaatgc attctagcct acttatttat taactttttt taattgataa 180
taatatagtt tggtttaata tatacatggt tagtatgtaa atactaatat ggtgtgacgt 240

gcatatgatt catgaggcgg gataacatgc tgctttggga ttataacatt gtcgatnaca 300
 ctgagtgtat gtgataaatt gagtatgtgt cgaattataa gatacaagcg tattgagatt 360
 ttgtatgcat cgagctgtga gctatgaact atactattac ac 402

<210> 32487
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32487

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 gctaatttgg ttcttatagt tccatgattt gtaccgctta gttcctatag tttgaaagtg 120
 gtcttttttag tccatataat ttgtatttca attgcctgtt agccattgct acaacacaca 180
 cacacacaca cacatgatta actacaaatt tggtatcaca ttattaacta tttcttattg 240
 cacactatct tgcgataaat tatgtatagc tataccttat tntnccccgc gcgccttcat 300
 tttctacatg tatntcctca catgttttgt gctacatgtt gttaacatga ttctttacag 360
 cttccaccgc ttaaacttgc tatagaagct agatttgatt ctctatgggt cata 414

<210> 32488
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32488

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 catgacctct gctttgaagg ttcatctata gaggataaaa ttggataatt ttatagaata 120
 caaataacctg tattcattga ggatacacga atgattggct gaagtctttc acaccttccc 180
 tcatccaaca ccatgcaaag aaaagaacct gttgaatcaa accctctaca tcaaacttgg 240
 atcccttgaa aatgcacgag tttctcatcc tctgagtaca ccaaaccatg gcacaccaca 300
 naagcctcca ctttttcatt actaacctta gaaagtaaag gagttgctta acagttgagc 360
 aacaagccaa agaataaat atatttttga taaattanaa tacagtatat 410

<210> 32489

<211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32489

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 tgttatcatc tacctttcca tcattgaggg cgctacttga gctgccagat cctccacct 120
 ttgggcatat tctttgaaag atttatgtct tctcttacac atgttctata gttgcattct 180
 atctggagcc atatcagaat tatactgata ctgcctaata aaagaaacca ttaggtcctt 240
 ccangagcgg atccaggaag gttccagatt aggataccaa gtgataggcc gccagtgcca 300
 ctctcttgaa aaaagcatta agagcttttc atccttcgcg tatgccccca ttatcttgca 360
 gtacatcttc aggtgattct tggagcaagt agtccctcgg tactagtcaa aactcggcac 420
 cttgaacttt ggaggatatga cgacgttggg cact 454

<210> 32490
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32490

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 tcagcactgt tacagtgttg catattgaat ctatgcagaa tatcagtagc atatttttgc 120
 tgtgtgagaa caattccttc actacaccct tgaatttaata tccagggaata tatgacaact 180
 caccagggtc agtcatgtca aactcatcca tcagattttt cttaaattca ttcacttttg 240
 cttcattggt tctgtcaat aacagatcat caacataaag gcatagcatc ataattgtct 300
 cacccccaga cttcacatac actccatgct tagacctaca ttccacanaa cccaaattgg 360
 tcaagctctt atctattttc atgttccaag cactg 395

<210> 32491
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 32491

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 aaatcagcct cagatgcaag ggttggacgc taagtgcgtg agacttgcag cttagcgcac 120
 gaacagagat gcgcttagcg cgaggcttgc gcttagtgaa aggactatctt ttcagaaaaat 180
 gttttctaag ttatctttca gttctttttc cacgaaatta aaacccttat gttaaataatt 240
 caaagatagg ctgatatact cctatgtaca gattatatag caggttccaa atgattgcgg 300
 catgacagac aaagtaacag aaattaaaaa ctgggttgcc tcccagcaag cgcttcttta 360
 atgtgattag cttgacgcac agcttactac cttcaagggtg gcatgaaagt cacaagaac 420
 acatcttctt tgaagtttca ctttttagct agaaatttca tg 462

<210> 32492
 <211> 77
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32492

agcttagaag atgnttgang gtttcttggt tggaaggaag aaggtagaag tcagtatact 60
 acaatacgct gacaata 77

<210> 32493
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32493

ctgtggcgga gatgttgatg ttaagtgtga attgcaacca gaaattaata atgcagggga 60
 ttattgtgta tttggagtga tgcaactttc aaaatggaaa agaagggtcaa gggaaatggt 120
 ttcatatatt tggaaggtag ttgggttggt gatggtggaa aagtgactat aatcaatatt 180
 tactctcctt gtgacataac ttctaaaaga attctttggg atgaagtcaa acaacttaca 240
 actgccaaca atggggggtt atggtgtatt ttacgagact tcaatagcat tagaaggcct 300
 ctgaacgagt angatgtgtc agaggattca gaatggaggc agcctgaagg aattcaataa 360
 ttggattggt gacttggatg ttgacgatgt tcttagtgtg ggcagaaaaat tcacttagta 420
 cagaccagat gtgacaacaa aaagcacaat acatacgggtc cttgtcttgg 470

<210> 32494
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 32494

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 ttatccttaa gatgaacaaa gatgaagctt aagctttggc ttcactccaa ttatataata 120
 tgcttcaaat actcaccatt gactggattc cccccgcgta atccacaaca atcaaatttg 180
 gatactgatc aagcacagat gcaagagcac tgtccctgtc tgaaggacca tgcacatgaa 240
 actccttttc accaatctga aaagtcttgt ctgacttctc ttcacacca aacgacacag 300
 gaacaacatt cagttcagca gctttcgccg cattaatcac ggtctctccc att 353

<210> 32495
 <211> 597
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32495

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 acacctccnn cccgcacgc ggcgcgcgcg tttgatttcg tgcaatagc acctatanaa 120
 actcaacttc gctgaaccc acatcattga ctcaatatgc acattcgtct tgtgaggaaa 180
 tcgaacagat actgctccct gcaagcaaag aactcttcga tcgcaccaac caaaccaaat 240
 catgctcctt atcaattcca tcatatccat ctgtacctga gctatctttc tcacgctact 300
 ttctgtgctc attgttacca tgcgtccatc cttcacacac tctactacct catcttaaca 360
 aaatggttca ctggatatct gggatatccaa gatgccaat gcgcctcttg ggtatatgcc 420
 cccgcacagc ttgccacatc tttgtatggt tatgtntana tatgaaaaat ttaaacacaa 480
 cagggcaatc cngcacccca ctctgtactg ctctttcaaa aancatcctc ctaacagtag 540
 agctctaagt cttacaactt gcacatcata ctcaccaatc tccacttaac gctgacg 597

<210> 32496
 <211> 404
 <212> DNA
 <213> Glycine max

<210>	32497
<211>	455
<212>	DNA
<213>	Glycine max

<400>	32497					
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tacatttcat	tcatgcaact	cattatattc	gtcatagaaa	tatatttgca	tgtctaagta	120
tataacatga	acatgccatg	cacattgctc	tcattgtttt	tttaatacaa	gaataaactg	180
tgcattggaaa	agttttccta	ggattttacgc	acatcaattt	agaaagatta	atattattaa	240
ttataataca	caacaaaaaa	actccgctta	tgtaaccttg	cttatctccc	gcccgacttg	300
cgacttttat	aaaatatggg	cacgtcttta	taaaccatat	aatagcaaga	cttggagatt	360
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aattattttct	ttcatcttat	ttttttggaa	tatat			455

<210>	32498
<211>	404
<212>	DNA
<213>	Glycine max

13542

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aagctctgag caaattcaaa cgacaataac tttttactcg gatgtctgat tgagtcccg 240
agtatatcga gacgctcgga cttgaatgcc gaagctctga gcaaattcaa acgacaataa 300
cttttttccct cggatgtctg attgagtccc gtaatatatc gagacgctcg gacttgaatg 360
ccttagctct gagcaaattc aaatgacaat aactttttac tcgg 404

<210> 32499
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32499

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aagttattgt cgtttgaatt tacttagagc ttcggctctc aatttcgtgt gtttcgatat 120
attacgggac tcaatcgaac atacaattaa aaacttattg tcgtatgaat ttgctctgag 180
tttcgggtatt caatttcgag cgtctggata tattacgggt ctcaatcaaa catccgagca 240
aaaagttatt gctgtttgaa gttgctcaaa gtttcaacat tcaatatnaa gcctcgcgat 300
atattacgga ctgaatcaga catccgagta aaaagttatt gtagtctgaa gttgctcaga 360
gcttcaacat tgaatatcga gcattctgat atattacggg actgaattag acatccgagt 420
aacaagttat tgctgttt 438

<210> 32500
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32500

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accactcct caggtttggg tntttaggga aaaacaccat aactaaacgc gccacaaggc 120
atccctatcg caccagatcc aaatctcaac gatgggtgat caagaggaga cacaggaaca 180
gatgaaagcc gacatgtcgg ctctgaaaga acagatggct tccatgatgg aggccatggt 240
aggaatgagg cagctcatgg agaaaaacgt ggccaccgct gccgctgtca gttcggctgc 300

<400> 32503

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 aaatgtgtca tgtagataaa tattatacat atatatatag aggtgcataa aagtaactaa 120
 acacattaaa tatatatgta agtaatcaaa tgtattatga acattaatat atatatatata 180
 aagtgcgtag cgtattaaaa acattaatat ttatatattg acaccttaac ggaagcatat 240
 atatttatat attaaacacg ttgccgtaaa caatttaaac attataatan tctcctccac 300
 atacacattt gaaataataa cgtaaacggg tatatatata tatatagata tatatatgta 360
 tatatatata tatatatgta tatggacata tatacagtag gagagcatat tatacatggt 420
 gctatatata tagtacctgc ctcaatacac acctccatat ttccn 465

<210> 32504

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32504

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 ttaccacaga atccagattt aaccttccaa ctctcaaagt ctactcttt ttccactcac 120
 aacaccacat tctcactttc taacctagggt taactctacc cttcatctct aacagtttcc 180
 ataggcaatt tcagcacata aacatcacia gcatcatcat gaaaacccta aaactgaatg 240
 ggtatgttta actcatccaa acatggcaag ttcaacatgc tttcaacaag tttcttcaca 300
 aataatcatc ataaagcaga aacctagcaa gactacccat catatctccc anaaccccat 360
 acccagcann atcaaaggag aaagaagtcc accca 395

<210> 32505

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32505

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 acctggagat atgtcgcggc ggtcaggaga ccttgnngac gtcaggtggg gtgctattgc 120

ccaaaaccaa gcttgaccaa tcccgtccca acccgggcat agtcgggtcag tgagaacctg 180
 tgatgtacct aagcacgtga gctcctagca gtcaacagat aaaaggaaca aagaccacaa 240
 agcaaggagg cttgtggtgg ctggccagct gtgaactttg attgaccgcc cgccatggcc 300
 tcggtaatcg attaccaagg gtgggtaatc gattacaagg ctaacaacat gaagacagga 360
 ggctaagatg gtctctggta atcgattacc acg 393

<210> 32506
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32506

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 tatagagtca cctgatgcat gcaagcttgt ttgataaaga aatgacgacc acgaagataa 120
 tgctggagta gtcttcacat gccaatatat taatggaata caaaatgtac catgaggcga 180
 gctggcacta ttacattatt atcgcggtat catgacttat ttctgcccc caccaccacc 240
 ctactttttt ttaatctttt tcattaattt cattctcatt tccttagtgt tccgcttcta 300
 cctctttctt cattttttct attctcaaac tacgtgtctt caaaatttgt ttactttcct 360
 ttgtaatact actattaaga tctgtttctt gaatattgtc acgtctgctt ttttagtaca 420
 ctcatacttt catttctgat cctccacca ctgtcc 456

<210> 32507
 <211> 404
 <212> DNA
 <213> Glycine max
 <400> 32507

agcttggttag ttggaacccg aaggcatccc tttgttgaag acatcgtgga agttcacccc 60
 ttccttcttg gaagggtcta acgatggaca aatatgatgg tgtcgcggtt ccggataagt 120
 agttggatgt ctaccttacc caaatcaact atacataagc gatgactatg ttttatgtcg 180
 aatcttccaa acttcattga agggcccacc attgagttgg ttacaaaaa ttcctctgta 240
 cttcatcaat ttgttcgaca ccttgataac ccaattcgac acttagtttg ttgcaagtca 300
 accctatcac ttgacttcta tggcactggc caatattagg caagacaaga agaaacctat 360

tagaatgctc aacgaaaggt tcaacaaggt cacccttaat atta

404

<210> 32508
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32508

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tgattcaagg tgttttgatg ataataaaga tgatgacaaa aagcccaaga gaatgacttc 120
aagattcagt caagaacttc aagattgagt caagaacaat tcaagaatca agtttcaaat 180
ttcaagaatc aagaatcaag aataatcaaa atcaagattc aagaatcaag aaaagactca 240
atcaagataa gtactataaa gttnttcaaa acattgagta gcacatgaag ttttgacaac 300
ttctcactta ccaaagagtn tactctctgg taatcgatta ccagaatgca gtaattggat 360
accagtgttg tcaaaatggt aagattttca naattcacia tgaagagtca catctgttga 420
tgtgtaatcg attacacctt aatggtaatc gattacca 458

<210> 32509
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32509

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cacacgcagt tctgaacctc cttagggttt tgactaatgt ccactttggt cttcttttta 120
aattcctata caaaatgggt caccattccc tttcaaagtc atgtccacct taagtgagtg 180
tttccagcaa tagccttata ttggaatagc ttatccttga tcgttagaag tacaactgcc 240
aaggtgaaac atgaaaatgt tttgctctcc aacgcaatta gtcttggtgt caaggccatg 300
tggtcagcaa ctactgaata taaagcagcc tcaatagcag cggcttctct taactctcct 360
tcaaccatct ttatcttggt ntccaagtag tcaatcttgt tgtctaaaat 410

<210> 32510
<211> 393

<212> DNA
<213> Glycine max

<400> 32510

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taagacttaa tctatcactt atgcctaaac taacagcatt caatacaaat gtcatatctt 120
ttaaaccgtt ttgacattg taaaatcata gaaccaaaaa cctagactaa tcttcaagac 180
ttcaaaatct ttgattcaac aatctcccc tttttggctt tgatcatgcc aaaccaaag 240
atgtgtattg atattctcct tgcctttta cctgttctac atcatgctca acaaacatcg 300
cagcactatc tagtcatca tagcatctag gtacatacac aatcaatcat atctttctcc 360
cctctttggc atcacacaag caaaaagtga gta 393

<210> 32511
<211> 251
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32511

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gtgcgaatca tatcaatgga agacaaaagg taacaagaag gcgggcgggc acttatcana 120
ttatcatggg gatataattat ttatatccct cacctttatg atatactttt ttttcatttt 180
ttttatcaca atcatttttt cttttctttc cggccaagt tttttcttct aatagaccat 240
tttttttaata a 251

<210> 32512
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32512

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aaatcttcat gatttacatt ctcccccttt ttgatgatga caaccacctg taggttanga 120
gcaacaacaa agaaaaaata tctatttgca tatagtttac tcccccttgg ttttgcaatg 180
attgcttata tgagacagtt gaagatttca ttttttcat atgtaaacia tttctcataa 240

acaatagatc atttttctta ctattttata ttttatcttt ctcttccct tcgccaacat 300
 caaaaacaat catgaataga gaggagaaag atgttaccac ttgttgcaat gtatgagaat 360
 caagtgatac caaaaggcat taaaacaatc attcaataat aatgaagcac aaacaagtac 420
 aataacacat caatcaaaca caatcaaat 449

<210> 32513
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32513

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 agtattgact tatgtcagac aaaaatctat taccacatta ttagttgtat aattaagtac 120
 aaaagtgaga ggaatttggg tgctatcgca aataatctta ataccaacaa gtgtccaaaa 180
 gttaagaagt aaggaccact ctaaaataat cgcgccatac ctatatcaaa catgcatgat 240
 gtacctgtct ctataagctg gcattgccat gtcacttcaa acactttntg ttacantttt 300
 agtttctttc aaaatttata attaaatata aataaaaata ctacaataac taaatatata 360
 aatgatagta ttccattaac taatatta 388

<210> 32514
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 32514

tgagctgacc gttaagcgag gtgatgtgct ggacttatct tgtacgctaa gcgagttgtc 60
 ccaatcttca actttttctt cacagctttt tctttacgtt ttttcatcaa tcttctata 120
 aacacttgta atttttcttc ttttaatac tgttggtaaa aaattaacat gatattaaat 180
 tcctcattat ttcattaaaa acaatagtaa attaaaagaa ttctaatacat tattagtcaa 240
 gatggactat caattatact taacattcac agttatcaca tgacctgcac cctccaacac 300
 catgattata acttgctgtg tagttgtcaa taatatgact gttgtcgata tccattgtgc 360
 cacaaccgac attgtgacca tcgtcatgaa catcagtgtc gtaccaacat ga 412

<210> 32515
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32515

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 gtaattcgaa cttaattat cttttaattc gttcctaaag atagatcgcc aaatctgttg 120
 ctaactgcac attaattctgt taaagactca cagattcatg tgtccagtat tttcgggcaa 180
 gatgtcctgg acatcgatg cgacattcgt ggatcctgca gttcaattc ttcatttgac 240
 attttatctt gccttggtgca ttgtgcaagc caatctgact ccttgacata acgtggacat 300
 catgtgcagc aacttcagct ttccttcaat gtctaagtgc ttat 344

<210> 32516
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32516

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 catctccttc ttactccaag ctcttatcca tggcctccta tggcggcgag ctntttctag 120
 actcatcttc tccttgaagt ggtgtctcct ctctcttttc cttctccatt ccgccggcat 180
 tcattctcca agaagaaaag gaatccattg atgaagaaga tctacgcct acaagctcca 240
 atggagctta caccatgtgg tatcaagagc atctccatct aggggatgtt ccttcgctcc 300
 ctctatcttc tgtccggaga aatctctnta attacttggg cttcatctta ttctccatgt 360
 atatcctcca ttatcttggt agatggcgct gtctagagt 399

<210> 32517
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 32517

agcttgaact tccggctgtg cgatactggg gaaaaattgt ggcacagtag aacttgaata 60

<400> 32520

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tgcaactttc agaaccatgg gagaagatga gtgaaggatc tatagattaa attcttgaga    60
caaaaggggtt agggttgaga gggggtgggc tgctgcacac aaaagaaaga taatggaagt   120
tttgag                                     126

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<210>	32521
<211>	409
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      32521
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tactggtaat cgattaccaa aacattgtaa tcgattatag ctttttgaaa ataattggaa 120
cgttgtaa tcaatttgaa aacttttcga aacaattttg ctactggtaa tcgattacaa 180
caatctggta atcgattacc agagagtaaa aactctttgg taaaagggtt tgtcaaaaac 240
tcatgtgcta ttcaaatttt tgaaaaactt tttaatactt atcttgattg agtattctct 300
tcattcttga atcttgagtc ttgaatcttg atcttgattc ttgagatctt gaaccttgaa 360
tcttgattct tgactctaga ctntcttctt gagtcttgaa ttcttcttg 409

<210>	32522
<211>	435
<212>	DNA
<213>	Glycine max

<400> 32522

tggtacaacc agtattgttt atcctaccaa atcaggctca tacacaaaga agaagatata 60
 tttgtttgat tgcacagtga ctaacactca atcgtattac agacagataa acaatcttag 120
 cacgtactct tttctctcaa aaaaatcaag gtattttgag agctattttta aacttcaaaa 180
 gaattttacat aaagtgattt ttacaaaaaa gaatttgaat gagtgcttta gttggttctt 240
 catgtcttca acaagtgttc aatgtctcta aatggataga tttctcctct taaagctcgt 300
 ttgaaaaatg tggcattggg catttaatgc ttgattgcta gcatgtactt cttcaaaaac 360

<223> unsure at all n locations
<400> 32525

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gacctagaag acaagtcacc taagcaggtg agggtcagtg gtcattctgat caaatctgat 120
gaagatactt tgaacacttt tctgaagact cagcgattct ggaagagggg gaaaatcttt 180
gtgcttattc ccggtttgca ctctgagggc ttgatcctca ngagttggct gctaagcttt 240
gcatcccagg gaggggattt tagctaaatg ttgatgggtca gcctttgaag attt 294

<210> 32526
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32526

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tacattggga gaaatatata catttttgaa aacttttata tacaaaagtt agtcgtaaaa 120
gacgattaac agttttcttt tcagatcttt ctattctttt cttgaaactc gggcaatcaa 180
ctctcagatg tcttggttga ttacattcat aacattttgg aagagaggat gaatcttctc 240
ctctcttctt tggttntaaa tttgatcttc tttgatttgc tttgtttctt aaaaatttcc 300
gcacctcttt acgaaaaact gaaatcatca tctctctcta tttcattcaa atcttcttta 360
tcaattcctt attgaattga agatgaagct ntaagtgtga ttgctntctt tctcttatca 420
ttctcctcat gtcgattcag tctcat 446

<210> 32527
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32527

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gcacaacaag tttccacat ccacaatgcg cgcataaacc caccatcccc tggtgcccac 120
ctccatctaa gctcacgtac tcccatgtac ccatactctc atttctctca acaccgggtc 180

005707 5072450

cccatcaatc ctctcaagct tccacaacat ccaagcaaaa caacattcaa actgcacaag 240
 ctatcacagc caagcaaaac agagcatagg cagaaaactt tgccaaaaca ccaaccaa 300
 cacagctttt ctcaacttaa gaccccagta acaattcctt cgttctgggt cattaaccgt 360
 tggatcgact cgaanattnt actggaagtc tctaatactt aagcctacat 410

<210> 32528
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32528

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 gcatttctct ctctctcgaa attgctgagg aaaattattt ccgtgaagaa natccaagcc 120
 gaggcgcttc cgtaacgttt ccgtgagaaa ttacgcgaag attctcgacc gttcttcaag 180
 attcatcggt cgttcttcgt tttcttcaat cttcaacggg taagtacctc aaaccgagct 240
 tttcaattca ttctatgtac ccgtgggtgt ccacattntg tttcatgtat tnttattccg 300
 ctttcattct cttttatacc cccttttgac gtgcttaagt catttattta agtcatttct 360
 cgcttaatct aanaataaaa taaatttcca ccgacgtttt gaatagtatc atccgttaat 420
 tntggctaaa atgaattccg accgttcggt cgtgccgtaa ccacg 465

<210> 32529
 <211> 372
 <212> DNA
 <213> Glycine max
 <400> 32529

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 actcttagca aacaaagaaa gagcgtctgt caactgggtc cctcgatgga aagaaggaag 120
 aaccgggggt cttatttcat gcacggattt ccgaatgttc ccttgatggg gacaaggggt 180
 tgcacagtt acaatcctgt tcttgctata aggcaacttg gctaccctat gagaggggca 240
 ccgctagagg aagagctcgc gcctatcatt tcacgaggtt tcaataagac caacgtggag 300
 acacttcaga aggtccgcaa ggcattgggag gtggtgcaaa agaaggacaa agaactcagt 360
 ggcagtaaca at 372

<210> 32530
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32530

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 actggtcctt ttcttccttg agttcactat tgctacccca tagagctccg cgaaatttgt 120
 tccgaccata ctcttccttg cgagccctct tgggtctcttg ttcaaaggct cttgcgga 180
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 atttctcctt ggcaagttnt gcctttccta actcgctnnt gagagccgga cttcttcgtc 300
 ctcttcagtg gcttaaagct ctctttgctg acgactttta acttggcgag ccaatctaaa 360
 cctcgtagat gaacttt 377

<210> 32531
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32531

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 tagaaatgtg acctaagcgc ttatgccata atgctcctga gtttgtatta tcaattctac 120
 gcttagtacc atgcaatgag aattacacac gaagctacag tatcaagtaa atatagatta 180
 tcattaacca agagtgaacc agttccaaca atatctgaat taaaagacaa cctanacaca 240
 ttgtttccaa atgaccacaa ataaccgaat tatgtccaaa taagaaactg ataccaaatt 300
 ccgtctaaat gacggcacia caaaagtgtc tttcagatcc aaataaaaac tagtacataa 360
 taataatcta aagtgccta tagcgtccac ttccaccgat ttacca 406

<210> 32532
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 32532

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 ggagcacaat aggtcgcattc aaatataatt taaaatgtac gctcaacatc ggtttttcaat 120
 aaaaaactga tgtaacaaa ttgatgagaa cgtaaacatc ggtttttattc aacaaaccga 180
 tgtaagggt gtttccttaa catcgatttt ttgaaaactg atattaacgt cgcttcgttc 240
 acatcagttc tcttcaaaac cgatgttaag gaatacacat tatttanaat taccaccccc 300
 atttacgtaa catgcggtnt gtgaaaaacc gatgttaac cgccgatgtt aaatctgggt 360
 cttctagtag tgaaccatac catcaatatt tcagttgatt gataaaata 409

<210> 32533

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32533

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 tataaagtta ttgtngttg aatgatctca gagcttcaac attcaatttc gagcgtctca 120
 atatatgacg ggactcaatc agacccccag taaaagata ttgtngtctg aattggctca 180
 gagcttctac attcaatttc gagcgtttcg atatatgacg ggactcaatc atgcatccgt 240
 gtaaaaagtt attgtcgttt gagttggctc agagcttcaa cattcaattt caagcgtctc 300
 gatatatgac gggactcaat cacgcattccg agtacaaagt attgggtcgtt gaattggctg 360
 agagcttaac aatcaatttg a 381

<210> 32534

<211> 457

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32534

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 cgtgttttgt ccttgttttg ttatttgctt tcttgtttac atcttgtttc gttattgttt 120
 gcgtcttgcg ttctattatt tgcgttcttg ctcttgtttc ttgtgtcttt cacactctgt 180

gtccaaaaaa aatcgcaaaa aaatttgaaa aataaagtgg gtgtttgatc tttgaacacg 240
 aaattgaggc atttacaggt atttttttgg anagaatatac gtggatcaaa ctccctattc 300
 tacattctct ctgaattctg agcattttga tatatagtgt gcctcagacg gacaaccgta 360
 gcaaaagtta tgagcattcg aagtttactt gccatatctg gtatcttatac tggatatctta 420
 tctcgtatcc tatctcgtat cttatttgct atcatat 457

<210> 32535
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32535

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 cttcgcgaaa tcattcacgg aaacgttact gaagcgctc ggcttggatt ttcttcacgg 120
 aaacaatttt cctaagcaaa ttccaacaga gagaagtgcc taaggggctc aacccttttc 180
 tacttcactt cttccctat ttatagaaaa ttgggggaga agcttgccac caagctcgcc 240
 caggcgagca gggttgcttc ctccagaagc aacagccttc tggaggaatc ttcgggaggg 300
 cccaagtggg cctggttgct atttgcaccc ccacttttac taaatacacc accttgccct 360
 tttttggaga tntctttttt tgaaagttac ggaaacttac 400

<210> 32536
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32536

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 atggcgctc ctctcacctc ctttcctttg tcttcgctg catctccatg gtggaaaatc 120
 accattaaag gacccattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
 gcttccatca cacggaccta gtacttttgc ttacctttgg ctctggactg ggtcgcttaa 240
 ttggtcgacc atgtgtcgta ggcagtgtc taacctttnt gtggataagc tgcgcggctc 300
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ttgccttgcg cctgcttggc ggccaatact tcttgatgaa agctcggcta gtatggcgcc 420
tgatgacctt

430

<210> 32537
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32537

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catatttggga gacactctag agacttgaca tgaacatacc ttccaacacg atgatacgtt 120
cctactgtac tgtttgagtg acgactgaca aggaccaca caccggacct ggatgatact 180
tcatacacta ctttatgata agtgagtata tatgataata gtcttgagcc cgacgcaaaa 240
gataacactg cagtattatt gcgcacttac taacttcacg gaccagatat cacgcngata 300
acaccatcag acaataattc caaccaagag gaaatcatga ctacacatag cagacgcaat 360
aacagaccag aacgcaacac acacaggccc aagtacctaa gtgacttctt ataatgacca 420
ctggagatgc aaccccgatc cc 442

<210> 32538
<211> 282
<212> DNA
<213> Glycine max

<400> 32538

tgcttctaca gttttgtacg atatatcagc caattgactc tgtgtgtcat taaactctaa 60
tatgcactcg cctttttgaa catggccttg atggatccga cgccttatcc aatatgcttt 120
gctctagagc gccgaatata atttttggat agattgatcc ccttcatatt gccacaacgg 180
atacgcatat gtacaagctc tcagccatta tcagagagtt gctgtctcat ccaaattgatc 240
tgtgcacata aacttccagc ataaatatat tccgcttctg ca 282

<210> 32539
<211> 400
<212> DNA
<213> Glycine max

<400> 32539

665707 3071260

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 atgctctgtc aaggtgtcat ggtgacctgg aattttctgc gttgttgtct tctcctactt 120
 ggctggatgg agagaagctg ttgccgaagt caggcaggac acaatgcttc agaagacagt 180
 caaagaactt caaatgaatc ctgatttgaa ggctggttct actgtgcagc aaggtatttt 240
 gttttatcag ggtcgtttgg tgttgtctcc taattcacct tctattcctc tattgctgaa 300
 agagtttcat gagacaccta tggaagggtca ttcgggggttc ttgagaactt atagaagggt 360
 agcagcta at ttgtattggc caagaatata gagatgggtc 400

<210> 32540
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32540

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 gcagaggagc ataaaccaca gactcttgcg acaggtacaa atttctgata caagggcagc 120
 tgggttacca ggtaaccaa ggcattctagt ttacctcaa gcttcttagt ttcagatgat 180
 gaagatgaat tcgtggctac ctcatgcact cctctaata caatggcctc atttctggca 240
 ctaaattgct gggagttgga agccattctc tcaattaaat tcttggtcca gtaggggtca 300
 tgtctccagg gctccaccac tggcagcctc aatcatactt ctctccatgt tactgagtcc 360
 ttcataaaaa tattgg 376

<210> 32541
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 32541

agcttgtaaa ttaattaaat ttgttatctt tgtcctcatt tcttggtaga ggtccaatat 60
 ggcagcttag ttgtttatgg atttattcat atagtaactg tgatcagggtg tcgagtagaa 120
 ttgcaccggg ccaacaacaa ccgtggaaaa acttggttaca ttccatatta aacaagtgga 180
 gtatcattta aagattta at tcttggtaaa atcagactgt ttgccaattc aggaacaag 240

gaatgcccta agatgatgat ttgtttggaa actggtatta tttaacatcc ttttttctca 300
 atgtgactat gcaagtcatt atgtcagcaa atattcacac ttttttaaaa tcttctcttt 360
 ttgcaaagtg aaattcactt ttggcttgaa gcacatgaaa aatatgg 407

<210> 32542
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32542

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttcaagga taaaagggat 60
 gcccacatt atttccatga cacaatgca aaaatgatga tttggaaact ttatgcaaaa 120
 ctggtcatgc atgcacctat gtggacactc aagtgtcaaa ttttttatgg tcatgtgatg 180
 ctaaggctca cgactcattt cctctatttt aaatcaaccc aatgtttcca aaatatgttc 240
 ttttatccat ttgtgcattc atccgagtc atttcgggcg tncggcaa at ttcacagcat 300
 tacccttcag gtgtagacac attttccaaa aattgggtat gatcaatgaa tttttttcaa 360
 agaacagttg gaagtcattt cttttcaaaa gcatgt 396

<210> 32543
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32543

agcttgatag cacgcagaga ttaacgtcgt ctcatgcgcc cttcgtcatt cgcggccgac 60
 aagcccgttg acacgcggag atttacataa tcttccgcgc tcacaagata tgcatactg 120
 acttttgagt cacgctgacg ggccgaatac ccgagtgggt atccgtataa acctttttgc 180
 tatctgtaaa acgaaaagcc tgatagcacg cagagattaa cgtcgtctcc tgcgccctta 240
 gtcattcacg gccgacaagc ccgttgacac gcggagattt acataatctt ccgcgctcag 300
 aggatctgtc atactgactt ttgagtcacg ctgacgggca gagatacccg agtggttatt 360
 cgtataaaca ttctttcttg ctatctgtaa gacgaanagc ctgat 405

<210> 32544

<211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32544

tgtaatcaag gaaatcatgg ttattgcctc ccatatacaa ttccagagag gccatggngg 60
 agggaggaat gaagatgatg ggtaattcta gcccacttcg gagactcgag ttagttgggt 120
 aggggtcaaga aagaaattct gagagagaaa gaatgaagat gataacgagg aatgaagacg 180
 aagatgattg gtttcggaac atgcatatct atactgaaac agaaacaaat ttcttgtgat 240
 tcagcatcca atccattctt ttcttttctg ggagttggaa gatgcagccc acatgccgga 300
 natgaattac tatcactatt cttanaccag tagtgtacca ttccattaca atttctggca 360
 tctatataca cagcctaac ccacctttgc ccataccctt ttcattgttg aagaggtaac 420
 ataccaagct atgcttgagt gggttacttt c 451

<210> 32545
 <211> 506
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32545

cggnccggcgg gntttgagac cttgccanta cccacacttt tgataatnna ccatctgagc 60
 tgtgnanagg antgaagcta tgataccacc tgttgacttt gtgggcttac atatgaataa 120
 gaaagggggg ggggttgaat taagatttct caagctattc ccctccgtat tgagtttgct 180
 tggatctcga cccgagacct cggaggcctt gtaacgtgaa ttcttaaagtg tgatangatc 240
 tgcccctacc ggtagaagct tttatgttat ttatatgtat gaagtgcctg gactatgata 300
 tgcacacgcg attcttatat tgggtcggca tagtatcttg cgtaagtcca aacccaaga 360
 gatctcgctc ggatgtgaac attataacat gtaatttaaa cctattgaaa cagacgacga 420
 aaacttttct ttgtctcgga gggcttcgaa aatagaggga ggtgttgacc acgtttcgaa 480
 cgatgagatt acaagagcgt ccgtcg 506

<210> 32546
 <211> 135
 <212> DNA

<213> Glycine max

<400> 32546

gagcctatgt tcccctttct ttgatttgaa gctgattacc agccttacgc gacaaaccat 60
 gatatcacct tacccttaaa gaatttcgga gctctggaat tgctttggga ataagcttcg 120
 gaataagcgt gtgtg 135

<210> 32547

<211> 425

<212> DNA

<213> Glycine max

<400> 32547

tgctgtccg atgcagcaga aatgatggcc taagtgatgt tgtggagtgg ttacgagccc 60
 gaatgggtgt aggcaaggac aacggcagaa taactagcct gataaatgcc taagagaaat 120
 catgggaagt atgggttaag ctataaacc actcacgcag atataaacag aaggattgag 180
 ggaccgcaac caccgagtca agtcttcgag gttgaaacaa gaaggcgaag gaaaccacc 240
 ctgccacata agtaggagct ttataagcgt ggggtctaggg gacgaacgac aagttgttgc 300
 aatatacgaa gataatgttc cgagtgcatt gaatctgga cgaccgtgct ctctaattc 360
 tcgactaaga aaattgagag tggaggagcg cccggacatt cacgcaacaa gcataatgta 420
 cacct 425

<210> 32548

<211> 306

<212> DNA

<213> Glycine max

<400> 32548

tgatattatt attatatcga gtgaaaggga caagctggct gtggatgtgc tgaatatgga 60
 tttggtagcc actttctaag ttcagcatct ttttagaatt tacgagagca ttcgttgaaa 120
 acataagtgc tggacaaatc tgtctattaa attataccaa atcatgtttc tggccataaa 180
 ttctccgctc ccttaaacad tctgtactgt tcttatcttt aaatattttc ttcaattctt 240
 ttataaggt ttatcgacac ttaaattaac ataatccaaa ataatcatga tccgaagaat 300
 tggata 306

<400> 32549

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atggtgacac tatatgatgg gatcaaccat atcatagcat actacagaat ctaatattgc      60
tctataatct ttatattctt tcaacgaccg atcgctagtg tactacacaa gcattcacca    120
tgtaaactgc ttgcttctat tacactatgt gggcgactct ctctatgca gatgatcaca    180
tattcttgta atacaccgaa aggctaactt tgtttacaca cgaaaatgat cttcatgatg    240
actatctacg gagatataat gatgagatgt atagaatgta atcttaaaaa cat          293

```

<400> . 32550

tatggactta tggtttctat cttattgtga aaatTTTcta ggctttggag aaatataggc	60
ccttgaacat actagctatt tcattgaaag gttggagaaa gagcttgaag agtatcatca	120
acaccttgca aagtttaaaa aagggaaga ggataccggg aaagatgtta gttttgttcc	180
atattaattt aaaaaaattg tctatacaat gcttgattta gaaagaaaaa tgtcataaac	240
aaactcgttt tcttgcttt ctgtcctctg caagttggaa tatatcataa catttataat	300
aaattgtgat ccagttgatg ttttgaaagt gtggcaaagc acatccacta gggattatga	360
aacagtttga ttacactaga caagtataat ttaaaatcaa aatgatgaga agagaataag	420
tggaaaatga ctaagctata taagtgttt	449

```
<223>      unsure at all n locations
<400>      32551
```

tagcaaccag ccccaaacc aatttttgtc gaaaccaagt gtcatgattt ctatattacc 60
aattttgcta gctgttgatg ttgcatcata gttttgctat gtcattctacc tttgggtctca 120

taattatttt tctttacctt ctcttcatt gttgattctt catttttctc catgtatctg 300
ctcacatgtc ttgtttctaaa tgttattaac atgattcgtt agagtttcca ccgattaaac 360
ttgctataga agtttagattc 380

<210> 32554
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32554

tgtgatggat agcaaaagga gtatgagttt agtatatact tatgtgtgga aggaaaaaac 60
ctttcggcct tatgtctccc taaaaccctc ttttgtgctg aaatacttta ccccaaaaca 120
cttctccttt tctccaagaa acccaccatt ggagaaacct taagctttgg tgttgtgcaa 180
aaagcacctc tcccctctcc ctttagtttt tgttgactgt cccttggtga agtaatctac 240
ccctcttctt ccctttgttc cattttccgt ttctcataaa acatccatgg gagctcatga 300
ccaagattgg gttttgggtt tttgatttcg ctctgtggcta tttttgggtt tggggcaata 360
ttgctgagat gaacttgncc ctggagtcaa gaaaagcttc tcncttgac ccaaagtcac 420
catttctctt ctctctcac 439

<210> 32555
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32555

ctctcccaaa ttttctataa atagggggag aagtgaagta gataggggtt cagcccccta 60
ggcacttctc tctctttcga atttgcttga aaaaattgtt tccgtgaaga aaatccaagc 120
cgaggcgctt ccgaaacgtt tccgtaacgt ttctgtgagg aatttcgcaa aggtttcgac 180
cgttcccgac gttctcattc gttcttcac gttcttcgat cttcaacggg taagtacctt 240
gaaccaagct tttcgattca ttctatgtac ccgtgggtgtt ccacattgcg tttcgtgtat 300
ttttattctc gtttcgttta ctttttatac ccccttttga cgtgcttaag ccatntatt 360
taagtcattt ctgcttaac ctaacaataa aataaatttc caccgatcgt ttgaattgta 420

ttatccgcta acttcggta acatgaattc cgaccg

456

<210> 32556
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32556

gttcgattca ttctatgcac ccacatggt ccacattgtg tttcgtgcan ttttattctc 60
gttttggtta ctttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120
ctcgcttaac ttaaaaataa aataaatttc caccgaatgt ttgaattgta ttatccgtta 180
acctgcccc caacaattcc gaccgctcgg tcgtgccgca accacgttgg aaatcaaaaa 240
gagataaaaa aataatataa ataaaaaaca acatctttta gtaaaataaa gcggaaaatc 300
aattggacgt tttctctctg ggatctctca ttcttaatcg aattgattaa taactaaagc 360
gaaactaacg ctaatatcaa ctgcctagt caagctcgtc cataaaaaat 409

<210> 32557
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32557

tgccaccag ctgcccac atcacaaca cttttgaatc aaaggatctt gcttctatga 60
cacatgctaa gctatttggg aaattaaggg aatacgaat ggactagata ataatggttg 120
aggaagaaga aatagacaaa cagattaagg gcttggcctt gaagaccacc attctgttaa 180
gcgcgatagt aaaatgacaa tgcaaaaggg ttagatgcta agaactctaa ttttcttgta 240
aatgggttag acaaatttct caagaagaag aagaagaatt ttgatgatag aacctttcag 300
taaaaaaaga acttcaagaa gagtgaaccc tttctctcct ctggctntac atgctntgag 360
tgctacaaaa caggccatat canagtagat tgccccacct accacaagaa gcaat 415

<210> 32558
<211> 441
<212> DNA
<213> Glycine max

[illegible]

<210>	32559
<211>	318
<212>	DNA
<213>	Glycine max

cgacacactg	accgctacta	tagcttgaac	atgacactta	tttcacaacc	atcggtcttt	60
ctcatcatct	cccaaagtgt	ccatataata	tattttcttt	cagcctcaa	cttatcttat	120
cttgctcaat	aaatgcgcgc	atgatagggc	actaccctga	atctgacata	atactcccc	180
ccacactcca	tctattgggt	cgaatggatc	tctttgcatt	atacagcatc	accttatctt	240
tgaccttggt	ggcagcaaac	cgaagacata	ccacctgtcc	aatccaattc	ttatgctagt	300
cacttagcta	ccacctac					318

<210>	32560
<211>	314
<212>	DNA
<213>	Glycine max

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cgaactatatt aatcgattgt cttacccgca caaaacatgt gctaaaatctc aatcaaacaa    60
aatcctaatt aactcttata gtgtgtccgc acggagaaac tcacaactct aaaaaaattt   120
aaattctaag aatttccaat attccaattg aaattctctc attctccaaa ctttgtgttt   180
ctcccccccc ctccaattat gagatgaaaa aaatgaatga acaaaaagac aaaacatgat   240

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tgctatgcta gttatacgta ttgctcctct atactcacac tccatcgata ttttangagc 300
tcacacgggtg tttc 314

<210> 32561
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32561

cgctactnac acgctatatc tcttttgtaa gactattaaa cattatacat ctcttacaat 60
ggaagacaga agatacacia tactactatt cctaagaaca cttccttctc cttaataatg 120
atcattccta ctctctattc tttcacagac atcactttca aacacctaac gcattttccc 180
ccctcctccg cgactgaat ttaataggat ggatataaaa ttgacacgag tgaccttctt 240
actcccttga agtggttctgt ttgcactcg tgatatcacc gtcaaaccga gtgtagctcc 300
cccacgttga gacctatgcg ccttgctctt tgccacacac aacttctttg ataagtctat 360
cttaaagact tccattcct cacaacgatt atcccgatta tactacctta cttggaacac 420
tcacaaaaac aaggtccc 438

<210> 32562
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32562

tatcanaatc tactcttcta ngaacttata gaaagcttca cattctatct tatgaataag 60
gtctcaatta atctgaacat attgaatgac ggtgtgtttg cgagaacttg tgtaggccta 120
tcttatgaca taaatgccgg tgtaagtgtt tggatgagct catgacagta acttacgata 180
tgtncctccc tcgccccaac taatttcaat atnctctata acatagctta tgaaaacaac 240
ttaaccgctg tattaacaac gttaaatatt tcattctcaa ttctcaaat actttttaca 300
taagtgccta catgtgtgta attggataaa caacttaaga acttattc 348

<210> 32563
<211> 458

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32563

tcaagagacc gcttcaactt caagaagatc ttggaatgtg gcatattcaa agagtcattg 60
 ttactccaaa agtctaggtc aagggtgaatt aaggagagag attgcaacac aaaacttttt 120
 cattcaatca atgagttcca taggcatgga gtccttccaa gaggtactaa cttatctttt 180
 ttagatcaac tgccaatgtg ataatacaca aagtttagat cattttagac ctatttcttt 240
 ggttggatgt ttgtataaag ttttggcaaa gatttttagct aatagaatga aaaatgtact 300
 tgataagggtg attgaccta gctaaagtgc tttcctagag gggagagaag ttctacataa 360
 ttcggtggtg gccaatgagg ttgaggatga agtaaaaagg ggaaaaaagt catgtttgtt 420
 gctcaatgtn gcatttgaga aggccttcaa cttgatgt 458

<210> 32564
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32564

tctatggagg ctggatcttt gagcttcaat gagtttcttc aattgtgatt ntcaattcta 60
 gagatgcaac gaaagatgaa ggagaagaag tgagaagagg tatcatccac tagggaaaag 120
 ccatggaagg aggagcttca ccaccaagag acagccttgg ataagaagct tagagaggaa 180
 gattcttggg ggaaagaatg agagagagag agggggggagg cacgaaattg aaggagaaaa 240
 agagggagag aagttgaact ttgaagtgtg tctcacaagt tttacattca tcaaagttat 300
 gacaagtgtt acacatgttt ctatttatag cctaggtcac taactaaatg aaagcttcct 360
 tgagaagcta gagcttagct acacataccc ctctaataatc taaggtcacc accttgagaa 420
 gcttccttga gaagttaaag cttagctaca cacaccc 457

<210> 32565
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

00507-507450

<400> 32565

ntatactntn tatatgttaa aatcttaggg aatccttata atatatcaat aaccaccacg 60
aacacattct gtcagattat caagagaggt tatgaagaat acctagatcc ataatacgta 120
gcggaattaa caattataag gagcaattga ttggtgatct tcttcaacca aatcattgtt 180
ttccttggtg agacttcatt ttctctcaa atggggagaa gggaagttgt ttcttgattt 240
ggtgtattgg ggaccacaac catgctttgg gtttttaacc tattagagtt ttcattatcc 300
cctaacgggc caaacctatt tccactttta agcccatatt aattttctga tgatagccta 360
ataggctcac caaattagat cacttatatt gagcccatag aanaatataa ataactaata 420
taaagtgtat aatataatat gtagccaca ttaatt 456

<210> 32566

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32566

ntgtataatc tgagatacta gtctacaata ctaccagatc gaatttataa aaccatcttt 60
cttaaataat tgagggtcat aatcattagt ttttttttaa atgatatatg aacagtgcag 120
ctttttgtc ttggttataa ttgcattgat ccataccact tggttacgag cttgcttaga 180
aactcaataa ttagagctac ttgatattat tgtgtaattt ttttgaaact gattgcgagg 240
aactgtcag caactcagca tatattcttc ttcttttttc attaactatc agcatatatt 300
ctatatttcc aaattttagt ggacgatata taatagtttg atattttgat tcatagtctt 360
ctatgtgtca gtgtatttat tatacatgcc ccggcctttt cttagctccg ggaccaagtt 420
ctacgtaaaa tacaattata t 441

<210> 32567

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32567

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tctgaat tttcagaat gttgtactg aattttatat atatttcttt cttactgaat 120
 tgtgctgtg cgtgtattta tttattatgt cttcagttgc ttttatcgct gttcttttgt 180
 ttccccacc tacccttgt aacgaatctt tttaatatgt aagctcattc ttgctcgcta 240
 ttgtatttgc tctttaatca ttcgactgac ctttttttggc tggatgtacg gactgctgta 300
 gtgagttcca cttcaatcca gtcttgaaca tcgaactcga tcaaactatc catgtgctta 360
 ttgactgagc tgatcgaatt acaacatcaa atatttttac cgt 403

<210> 32568
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 32568

tgccgccacg gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
 agcaagacat gaagagccaa tggttgatac atggacagag atgaaaaaga tcatgaggaa 120
 gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180
 aggcgcacgg gggcgaggag tatttcaagg aaatggatgt gctcatgatt caagcaaata 240
 ttgaagaaga tgaggaggta actatggctc gatttcttaa tggtttgact aatgatatcc 300
 gtgatattgt tgagctgcag gagtttgttg aaatggatga tttgcttccc atagcaatcc 360
 aagtggagca acaattaaca aggaaggag t 391

<210> 32569
 <211> 226
 <212> DNA
 <213> Glycine max

<400> 32569

tcatgatgaa tcacgattaa ttcaaagaag tcttgatgat tattaatagc tcaaagatca 60
 agactgagtt caagattgaa tcacgaacac ctcacggttc ccgaggaact ttgatcttcc 120
 gaatcaagaa tcaagtttca agattcaagc ttccatgaat taagatctcg attccggaat 180
 atcccccca cccagacac ttaataggga aagtatgaat ttttct 226

<210> 32570
 <211> 450
 <212> DNA

[illegible]

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<210>      32571
<211>      408
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32571
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```
<210>      32572
<211>      432
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32572
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aaacacaacc attcatttca aacaaaacaa accactgaat atcaaattca actagttcat 120
 tgttcaaaca tgcttttgta caagctacac aactcaaac aacagaaatt taaaagacta 180
 ctccagcata actaaataac tgacatgaac taaatagctg ataaaataaa ctattcaaaa 240
 tttgcaaaaa tttaaaaact atgcaggatt caccatctct cccttgataa tggggaaagt 300
 atctcaccag ctctcaaac ttggctggat atttagccac aatcatgttt ccctgcttga 360
 gctccaagaa ctccatctct ttcttggtcc taacttctc gggaaagtat ntctncaaaa 420
 ataccctctt ga 432

<210> 32573
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32573

taggctaaat taggctaaaa ctnttgtaag ctacttgagt tgagtctagt cttacatgag 60
 ggatttgagg acgaaactca gtttaagtta gtctaaacgt aagaggactg tctaaattgg 120
 gcctggctct acatgaggga tctacggacg aagcttggat taatatggcc tgatgagcat 180
 cgaggctaag taatttaggc tacaacatag aacataagag catgattgat tagagaaata 240
 tatttctata catcagcttg tttgtagaa agacctaa tttctaccta ctgctatcat 300
 ttttatttac ctgcatnt atagttctag cataaaagt tagtttaa tctgtctaaa 360
 attatcactt atacatgta tctcaacaat gttcaattc taaacttaag tcacgctaac 420
 attagt 426

<210> 32574
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32574

nttaaagaat catgctnctg gaaaatcata taaattgtgg tcaactctta ataatgatt 60
 ggtaaaaagt cacacaagat aaataattat agaaaaataa aatatattaa aatttcacat 120
 caattataaa taataacaaa ataaatttac aaactgcttt tataagatta atatatatat 180

cttgctatag aagctagatt tgattctcta tgggtcacat ttctgttct tgggtctggaa 420
ccatgaattg tgttgagttt gggttccttt gag 453

<210> 32577
<211> 453
<212> DNA
<213> Glycine max

<400> 32577

tgaggaattt cagggaaacca ctagagatgc tgctatcgct accgaactaa acaagtgagc 60
gcgcttagag ataagggatg agtttataac aattgggggt agagtgaaca tgtgtagggg 120
tccttagagg atcaaactgg ggttaatttt ggggtatttt atgcatttta atttttctag 180
tacctgataa ctacaattgc tcatgtttga tgggtcaatt gatgcctga tgcaaaatgg 240
atggtttaat tgagtgtttg actttgaatg ttagaatgag ggggtcaattc ttgcatgttt 300
tcttgaaatt gattaagggg ttttgttccc catgatgtga tcacatgttc tatgctatta 360
accgaatgaa taagtgaatg attatatgcc ttatatgatg gaagattgct attgtatgag 420
aagtaataat atgttagtga gaaggtgtta tga 453

<210> 32578
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32578

tgcttgtgga gcttctatgg aggctggatc tttgagcttc aatgaggtcc tttaatggtg 60
gttttccacc atggagatgc agtgggaagac aaaggagaag aggtgaggca ccatccacta 120
gggaataagc catggaagaa ggagcttcac caccaagata agccttgat aagaagcttg 180
gacgatgctt catggaggaa aagaaaggag gagagaaaga gagagggggg agcacaaaat 240
tgaaggaaga aaaagggaga gaagttgaac tttgagttgt gtctcacaag actctcattc 300
atcanaatta caacaagtgt tacacatgtt tctatttata gactaggtag cttccttgag 360
aagttntctt gagaaaactt ccttgagaag cttctttgag aaaacttcct tgagaagct 419

<210> 32579

<211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32579

taacananag aaaacaatag acagaagaaa gctntacaag atgggtgacc taagaagatt 60
 atgacaacaa agaactat tatacaaggt tggcatgttc taaccaaagt agaactgaaa 120
 gactgaggtt ttttttttaa agttgttgat tattctttga gttaatattc tattaatttc 180
 taaccgcgcg tcgccttatt cattggcagg tgtttatttt aatgaaacaa gttatgccct 240
 atacatgcat tttgcatcca atgattgaag agatggatga aattatagtt gcgcaagcca 300
 cggcacatgc cgggttaattg agaaattaat cccaataag tataaaaatt aaaatacata 360
 tataatgctn tacaaaaatg gcatataatg cctataaaag ggagggagat cctttagct 420
 aagcattcca attntcacga ctatacttac tatatatata 460

<210> 32580
 <211> 420
 <212> DNA
 <213> Glycine max
 <400> 32580

taatagacc tcgtggaggt acagcagtaa gaagaacgta taaaaccatt ctagaagcta 60
 ggggtggtga tgtaaacaga ctataggccg ctaggattgt tagttagctg ttacgtaact 120
 aactacatgt ataaaagcca tgcacgaacc cgtgaaggga ttatggaaat aatattctca 180
 tttccagcta gatctttctc tctctctct tctctcgtag aatatacagt ctgaggaat 240
 gctacctcta gcattggtgc tttcattgca tctctccgc catggctgat gcaacacgat 300
 caaagacaag catggagcgt tgggaagacg cgtttgcaa gctctttgca tccatgacgt 360
 taaagtctga cgaacttctc agccatataa atcacctaga aagcctccac gccacaatc 420

<210> 32581
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32581

gttcgattca ttctatgtac ccgtagtggt ccacattgtg ttctgtgcat ttttattctc 60
 gttgtgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120
 ctcgcttaac ttaaaaacaa aataaatttc caccgaacgt ttgaactgta ttatccatta 180
 cttcggttaa ataaatttcg accgttcggt cgtgccgtaa ccacgttaaa aatcaaaaag 240
 aggtaaaaaa taatataata atcaaaaaga catcttttag taaaataaag cggaaaatca 300
 atcggacgtt ttctctttgg gatttctcat tcttaatcga attgattaat aactaaagt 360
 aaactaaagg ctaanatcaa ttcgcctagt caagctcgtc cataaaaaata ggctcttgaa 420
 gtttgcatt tcattntctc actaagtaaa a 451

<210> 32582
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32582

tgattcgtga gttgattcta accttggttt cactttgatt attagtcaat taattcaagg 60
 aaacttccaa agaaaaatgc ccgattgatt tttttttat tattttattc aaagatattt 120
 tgattatttt attattattt tttcaagata ttttgattat cctattatta ttttgctttt 180
 tccgcccact cacgttacaa cgtaaagcat cggtagatt ttactttaat agtgattaaa 240
 caacattaca ataccaatga tcgntgaaa ttcattttat catttattag gcgagataac 300
 ggcttatata aactgttaaa gcacgttaaa aatggaagag aagacaacta acagtaagcg 360
 aaattaaagt gaaagtacac aacaagtcgg gaccactaag ggtgcataga atgaattgaa 420
 agattcgat 429

<210> 32583
 <211> 332
 <212> DNA
 <213> Glycine max
 <400> 32583

cggtgacaat aattgggtga aaataatata tcagatgaaa gataaatagg caactgctca 60
 tatgcacaaa aagttcattt gtgggatcaa aacaacgtca atttgtgaag gtattaaatc 120
 attcatcaag cgatatgtgg agaaaaagaa tagcctggtt gatttcaaca ctactagaaa 180

attcctttta acgcggttct aatatacatt taacgacggt agttgaacca tctttgaagc 240
 caacgacatt aaaagtcatt gatgtaccat gacgattatg gaataaacca tcttaaaaaa 300
 tatgtctctt ctaagatggt tcttatgtaa ga 332

<210> 32584
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32584

ggcctaatta acctgaaatt gagaganaat gattattaaa cacacaaaat ggaagtacta 60
 agtattttatt atctatactt aacaaaaaaa tacttataac actacaaaat aaccataaat 120
 tggaagagtt tgatacaatt tacataagtt ttatacacaa agttatttca tattttaccga 180
 cgatcttctt acattcttat tagcagcctc aactgcccc a ttcattcttg gccgataaga 240
 cgtggaatta tgggtgttga ttttgaaatc ctcacacact ttcttcatca tattgttggt 300
 taaattggtg gcattatcag tgatgatctt tntgggcaaa ccatatctgc aaattatttc 360
 cttcttaatg aacctaata cccacattcca agtcacacta gcatatgaag ctgcttccac 420
 ccatttgctg aagtaatcaa tggtgactaa atg 454

<210> 32585
 <211> 448
 <212> DNA
 <213> Glycine max
 <400> 32585

taatccatcg ccactttaac taataaatga aaaattattc atttaattga tactatgcta 60
 atcatataac aatgaatttg agattcatat tacctcgtaa ccaacggata cgatggtggt 120
 caattaactc ttgctgcaat gaagagcatg cgataccata cccagattg caacaatgcc 180
 cacagctacc atggtttttg catcagggtc agtggcacta cacatttctc tgtacatcgt 240
 tgccagacaa gtagagcccc aactatacca cctgactcgg tcgagatcaa ccaacacagt 300
 gaggtacatc aatgaacct gatttccat cttgtatggc attaaaacce caccaattag 360
 ctgcaaaatg taagctctac aatgtgcttc taactacttg tgtgtcgggt ccaagtgaag 420

cagtggcata ttatcttgca accactta

448

<210> 32586
<211> 188
<212> DNA
<213> Glycine max

<400> 32586

tgatgtcgag cgtactgatg ggtaccatga ggtgtcttct gtggtttgac ccacgcgggt 60
gtcgaagaga ctgcatgggc atctccttcc ttcttttatg ccccggttgt cccgactctt 120
ttggcattag ccctcgcgga tcaaacgtaa tcgaaccttc ctcttttcaa cacctaatag 180
ctcccccc 188

<210> 32587
<211> 302
<212> DNA
<213> Glycine max

<400> 32587

acatttatct gtatggtgat ctgcacaaga acatagacca cagactctcg caacaggtgc 60
agatctttga ttcattggcaa gctgagttac taggttgacc aacgcataca attttccctc 120
aagcttttta tttttaataa atgaagaccc cccccccac ctcatgaact tctataaaga 180
caatagcatc actttttgca ctgaactggt cggagccgga acccactttc tcaatcaaat 240
tcctgacctc aacaggcgctc atatcaccac aggtccacc attggcagca ttaatcatac 300
tc 302

<210> 32588
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32588

taatccatcg ccactttaac taataaatga aaaattattc atttaattga tactatgcta 60
atcatataac aatgaatttg agattcatat tacctcgtaa ccaacggata cgatggtggt 120
caattaactc ttgctgcaat gaagagcatg cgataccata cccagattg caacaatgcc 180
cacagctacc atggttttgg catcagggtc agtggcacta cacatttctc tgtacatcgt 240

tgccagacaa gtagagcccc aactatacca cctgactcgg tcgagatcaa ccaacacagt 300
gaggtacatc aatgaacct gatttccatc ttgtatggca ttaaaaccnc accaattagc 360
tgcacaatgt aagctctaca atgtgcttct aactactggt gtgtcngctc caagtgaagc 420
agtggcatat tatc 434

<210> 32589
<211> 592
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32589

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ctcacacata cccctctccc acaaccgcgg cgcggcgcnn ctgctgatac actcgtatta 120
cgtncactat atatactaca gctacgcacg atcttgaca tcacgacaac tacaacagtg 180
tctgcttctc attaaagagt gcatcattta cattcagaac agggatgact atctgaccga 240
acttgctgat gttgttcttg atacctcta ccagcataag tctcaatgta tgatacccta 300
tcttcacacc ataaccattg gttgactgcc ctgcgccag caacggccaa ctggacgtgt 360
atacaagtag tttgcatcct tatgaatgcg atctcacata taaaactcgc ctttctatct 420
tctaagact cattcagacc ttgcgaaact cacctcgaat gctctctcac ccattctgact 480
cgaagatgta ttcttctca catcacctat ccagactatt ccgagccaca ctatagccat 540
gaacccatgc tcgacatcca cctgttcttc catatcgccc ctccccccgc cg 592

<210> 32590
<211> 514
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32590

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cgagatatca ctaaataagc aacgcgttag ctacgaacgc tctctatcgc agctaagctg 120
acgcggacgc tgtgctgcat gagattgtcc acaactggta cctatttcga ggaatacggg 180
ccacgacctg taatacgggg ttcaaacgcg atactggcta taatggcgaa aggacttggt 240

gtgccaccc gtcaacgctt tgtgatattc ataaagagga gatgaccacg tgttggtcca 300
 tggcttgata aaatatagcc tgaagttgat gacatccctc cgtgcttctt tattagcgtg 360
 agcctacgtc cgtccgatga acctatttga cactcatggg gggtaagagg atcacatcat 420
 gcaaacctgn tacgcgggct cacacggacg atggatctat ggcttcatgg agcgccttca 480
 acggaacggt gccacatgat attcactaga cacg 514

<210> 32591
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 32591

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 gcttgagaaa aacagaagct gactctaaag ggacttgaat aagctcggtc aacagcttgt 120
 ggctagaaaa gaacatacca aaccaattag aacagatata aacaacacaa caatatattc 180
 aggactcccc tctccggaa taacttaata taagccagtg ccataattcg ataatcatag 240
 ctcaataggg taacaaacaa tcacagtcac ccacattgga atagctttca ttgcagccgc 300
 aggactacag attcacca 318

<210> 32592
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 32592

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 ataaatatga gcaagtgttt cccaagtaa agtcatgagt acaacctcgg gatacagata 120
 tatatgatga caaagcaaat gaatgaatat acacaaacaa aagtattcaa gcatatgcct 180
 accgcatcac catctataaa agaaaaggtc ctaggctcaa agcaatcatc tctaacacca 240
 aatcagtgtg gaaactacac ataacataag tgagcaggcg tccacacata acatatatac 300
 ctaacgaagt gatccacacc tctagtcaca gtgggtatcc atcagctcca agtgtactca 360
 tcttcgagat ggagcgtcga ctccccgacc tacatct 397

<210> 32593
 <211> 406
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32593

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 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggacg 180
 cacatgtggc gagtaactgg tttcttgagg tgtccatagg tagcagttgt cctttgatct 240
 gctgccttc attagaactt caetcttctc atttgtcacc aagcattctg actttgtgaa 300
 gnttacattg aatccttcat cacacagctg actgatgctg atcaagtctg cagtcagtcc 360
 cttcaccagc agtactttgt ccagactagg aagtccatca tggact 406

<210> 32594
 <211> 488
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32594

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 ctgattgtat gtgattcctaa atggatcaca atctacatat ttgctttgaa cctgtcactt 120
 gaggcaatgg aacataatga aatctcacgg acaaattctca cgcatagtct tgagtcttga 180
 agggcacatg tcatacatat cagactaacg aatgtcctgc cgccacgata cttggatctg 240
 cccccctc cgcattacta gaataaaaat aagacttaat tttcaatcta tactgcaaatt 300
 ctctaaaact gcgttatgca acctccatct cattacgtat atgccccacc caggtctgctg 360
 atttcaccag actctatatt ttcacgaaca tctcagcaga tttaatctcg ttaaaactca 420
 tatcgcaatc aaattataac aatattacgt ccacctctga cctctgacga gacaaatgag 480
 ggtctccg 488

<210> 32595
 <211> 458
 <212> DNA
 <213> Glycine max

SECRET

<210>	32596
<211>	312
<212>	DNA
<213>	Glycine max

tctagccaaa tggacttacc ttgaattaat tcctttgata gctcttctga gccttggttg	60
cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat	120
ccttaaggaa ttttggagct tcggaattgc tttgggaata agtgtggggg gtttttgttt	180
natcccacca ctcgtttgtc ggctatgctt catgatgtat tttgggccat acttgatgta	240
cattgtatat tggttaaatg ttggacatgc tgaatgaaat gttgtttcat aaaggttaaa	300
gagttctaataa aa	312

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<223>      unsure at all n locations
<400>      32597
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13584

acttctcgtg taggaggaga agttctggca gcaaaggga aaaaatcatt ggcttaagg 180
 gaaccaacta ctagactttc aggccacgac atcacggcgg aaaggaagaa acacattaaa 240
 gaagctccaa ggagacaatg aggttgaggt tcatgatcaa gatgggtattt atgaggtagc 300
 aaaaaatatt ctactgattt cgttactgtc tcgaataagg tttatgagcc aatgttggag 360
 gtgataaatt gttgcatctt agatgaagat aatgagaaac ttactgcaat gtttagttta 420
 gaggagtta tagaggtagt gtttcatatg gataac 456

<210> 32598
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 32598

tctagcgtac ccgctattgg tgctcagaaa atcctaagaa cttattcctc ttattactag 60
 ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgctc gttcccgtat 120
 tagttttttg caaaaaagaa aattaatctg aaacaattca agctgaatcg ttatcgttat 180
 tattcccagc accatacgaa taacagctaa acaagtaatt taaaatgtaa cttttaaatt 240
 atgtgggtatt tttttaatta caattctact tcaatatcta atcttgtaa tctacttagg 300
 ccgattgtta aatatcaata tgaatttaaa ggtgatctac tgataatata aagtacttgc 360
 taatcacaaa ttatgatagc tatcacttct aaatttaact tacttctata aatat 415

<210> 32599
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32599

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 ataagctttg gtgtaggctc tctttgacaa ggctttgtga cactttcagt gacccccctg 120
 gcagccaatt tgaacgtgcc aagccatacc acaaatgggc atttttactt tttgcaaaac 180
 aacaaacatg gacggataag atttgccaaa aatgggtatt ttctcctttt accaaaacca 240
 gtaaataatta tcttaattgc gtaggttatt gtgttaatct ccctaggaat acatgtacct 300
 agagtaatcc tcatacagag aacactctca cacatagtta aattacactg tgctcagtg 360

ataatgcaat ttcactactg atgaaattnt ntatctaggc agtttccaat ttatgtcaac 420
taactaaata aattatttcc acagaaaata aataaa 456

<210> 32600
<211> 448
<212> DNA
<213> Glycine max
<400> 32600

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gtgattcttt gatcaatctt tagactaatt gcagtgttat tcttttcgaa gactctcttg 120
aaatgttttt ctctaaattt gaacaaatca agagtatttt taaaagaaaa cacatagggg 180
ttctataaat ttgacagtta aaacagatcg aatcgattat caaacaagggt aatcaattaa 240
ttcaacaaaa tccattttgt tttgcatttc tagaaactgg ttaatcaatt attagatagg 300
gtaatcaatt aattcatttt agtatgagaa tatttgtaac gatttagaaa catttaatgt 360
tgttacattc ttttagggta gaaaaatcat tatgccatt ctatatatta ctgagactca 420
acacacagcc tagagagggtg gtcgacta 448

<210> 32601
<211> 456
<212> DNA
<213> Glycine max
<400> 32601

tgtaggatta tggggtagcc atcacatgtg gtactagggtg gcggtcgggc gatggtgcaa 60
aacgattctc cacatccaca aatcacgtat aaccacccat ccctgttgcc ccacctccaa 120
ctgagctcac gtactccac gtagccctta tctcgttcc tctcaacgtc gggtagccat 180
actcctccca agttccacaa catccaggta attccacatc caatcatcat ggactaacia 240
aaccaagcaa aacagggcaa aggcagaaaa ctctgcccc aactcacacc aaaaatcaca 300
gctttttctc acttaaggac ccagtaaca tttccttcgt tccaattcgt taaccgttag 360
atcgactcga aaattctact ggaagtctct agtcataag tctacatttt gaccgttggg 420
atctgctact aaatgtccag aaccccatat gtacta 456

<210> 32602
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32602

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 aacaattatg acctctccag caacagatac aaccttggat ggaggaatca ccctaattctt 120
 agatggtcca gccctcagca acaacaacaa cagtctgctc cttccttaca aaatgttgct 180
 agcgcaagca gacatacatt cctccaccaa tccaacaaca gcaacaacc cagaaacagc 240
 caacagttga ggcccctcca caaccttccc ttgaagaact tgtgaggcaa atgactatgc 300
 agaacatgca gtttcagcaa aagaccagag cctccattca gagcttaacc aatcagatgg 360
 gacaattggc tacccaattg aatcaacaac agtcccagaa ttctgacaag ctgccttctc 420
 aagctgttca aaatcccaaa aatgtcagtg ccatttca 458

<210> 32603
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32603

tcctcggggc attcctgcca gagacaacat tcggaaagtt tagttttacca gagggacatt 60
 actcttaaaa caaagatggc atacaacctc ttcccatata catgaatgtc tatgtacagc 120
 cagcttatgc gtatatttcc ttacaaacgc cccattgcgc aagacattct tttaaataag 180
 cccctcgccc atatacaatc aaggcagctt ngttacctag attatttaca tgtacttccc 240
 aggtgtatgt gtcacttaca tcacacacat ctccctgggt aaacttacat gcatgcatac 300
 tcagagcatt ttgcgggtacc acaaattgca catgtgcaca tccttggttt tctaatacct 360
 atacctaccc aaac 374

<210> 32604
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 32604

tataagcttg accaacacat caaacctcan agaacaaata actaāaaaat tttaaacagt 60
aataaacata ccctaaaatg atagaggctt gcaccgaatt ttgttctgca tgttttccat 120
tggatgtcaa atgtagtttg tcttcgaaga catatccaga acttgaggta ttggctgagc 180
ctactgcacg cataagggca aggatcetta tagcctttgc aaacggaatg gacatcacac 240
aacttatgac cacaaggtag atgtctgctg gtgttgata atgatgtct atactgattc 300
agatccctgt cctgcattac agatgccnc atataaaaga gagcatctgc caatcaatca 360
ttgaaattaa cagctaaatt tcttaccct cttgcaagaa ctgttgttga agtccacata 420
tgaacattca aagtatatta ttatttac 448

<210> 32605

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32605

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gttttgttta ctttttatac ccctgttga cgtgcttaag ccattttact taagtcattt 120
ctcgtttaac ttaaaaaataa aataaatttc caccgaatgt ttgaattgta ttatccgtcc 180
cttccgctaa acgaattccg accgctcgtt cgtgccgtaa ccacgttgga aatcaaaaag 240
agataaaaaa ataataataa taacaaaaaa catcttttac taaaataaag cggaaaatca 300
attggacgtt ntctctttgg gatttctcat tcttaatoga attgattaat aactaaagt 360
aaactaaggc taaaatcaac tcgcctagtc aagctcgtcc ataaaaatan gctttcgaag 420
ttcatca 427

<210> 32606

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32606

tggagaggat gcttcaatgg agganaagac agaggagag aaagagagag aggggagcac 60

gaaattgaag gaagataaag ggagagaagt tgaacattga gttgtgtctc acaagactct 120
cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta ggtagcttcc 180
ttgagacgct ttcttgaaaa acttccttga gaagcttctt tgagaaaact tccttgggaa 240
gctagagctt agctacacgc acccctctca taactaagct cacctccttg agaagcttcc 300
ttgagaagat tcctaaagaa gctagagctt agctacacac acatttctaa tagctaagct 360
cacctccttg agatgagaag ttagagctta gctacacatc cgctataata gctaagctca 420
ccccacgac aagatacatg anaaaacaaa aaagtcctta ct 462

<210> 32607
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32607

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tcaactcgatt cttcaccaaa tcgctcccg taaagcccaa tcttcctctt ttccattcct 120
ctttcacttc caccgatcaa aatccagaaa aacttcatca aatggcagag ccatcaaaga 180
agagaaaggg atcactctcc ccgctaccgt gctgccatc gccgtcacgg cccatccgga 240
gcacccacag cacctattcc tccttctttg tcatctccaa gatcatcaac attgttttca 300
tccgatgac aacgtctacg gtatctttct cagttttctt ctagaataat cttagaccct 360
aagtacctag acgtagagtt ctttaatgat gaaacgtttg attgctattg tcgcaaccta 420
cccttcggtg ggagggcgac gcgagactcg cgggatgcgt gttcca 466

<210> 32608
<211> 445
<212> DNA
<213> Glycine max

<400> 32608

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tacactttcg gtcttctaata caactatata tatagacaat ttgattctct ttgtgacaat 120
cccaaattat tctcgtaaaa atattttatt ttaatatatta atcaattcta ttagggctat 180
tcactgcca ttatacctgt aattaataat tgattattat aattgattgt cataattaaa 240

tgaaactgaa ttattaacaa aaaaaataa aatataaaaa tattatataa ttgattcttt 300
 taatatataa aaatattata taattgattg tttatatctt aatattattt taagttaact 360
 atgttaaaac actaatatat atttgaatt atagcatgtt gaagagtatg tatagctata 420
 tatctttaat agagttaac aaata 445

<210> 32609
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32609

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 atttttgaca agtcattgtt acttccatca atattgatat tgtatcatgc ttaattatat 120
 gcatttgctt attctgatca ttgtgtgttg cgtgattatt tcttccatgc aggtacatga 180
 ttcccccccc ncgcgaggagtg aaatgatggg cagcagcacc aactaagggtg attgtatatt 240
 tcctttttttt tgtctttatc tttgttagct tgctatatat tttttatttt atatgtctga 300
 gctttaaatg tgtaaaaaat agaaatagaa aggtttgcta tcattctttg aatgccatca 360
 tctaccttta atgactcata tctaaattgg tccctgttta actaaattaa ttacttattg 420
 ccttagcttg actggataga agtatgatat gtc 453

<210> 32610
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32610

tctaagccat gtccaaagta agaaagatgc atcatccatg actntattgc cgctgaaagc 60
 ttcattagag aatattattt tgttcttggtg gtgccatag gaccatgtca aagctagcca 120
 ccaacacctc cacctcttga cccgtattcc atcagccaaa ccattcatat gttgtangaa 180
 gtgcgctccg ggtttgcgga aaagcaccca caagtttcgc ccaagacaaa acttgccacc 240
 acatataatt tttctacagt ggaaaaataa atgccctgcg tcttctcct caaggttgca 300
 gaaagggcat cgcccatcat ttatcacaat ttggcgtgat tgtaggtttc ttcttggttg 360

caatctatcc ctgagtagta gtctccatgc aaaaactgta natttgcttg gcacctttaa 420
tttccacagt tcaacagaag ctacatcca 449

<210> 32611
<211> 435
<212> DNA
<213> Glycine max

<400> 32611

tgatttgtga gttgacttta gccttagttt cactttggtt attagtcaat tgatccaagg 60
aaacttccaa agaaaaacgt ccgattgatt ttttttatta ttttattcaa agatatttta 120
attattttat tattattttt caagatattt tgattatttt attattattt tgcttttttt 180
ttccctcacc gcagtacagc gtgaacgatt ggtagattt tgttttaaca gtgattaaac 240
gagaatacaa cacacatgat cggttgaaat tcattttatc atttattatg cgagacaacg 300
gcttatacga tcggttaaag cttgttaata acggaagata agacaaccga acatgaacga 360
aatgaagatg acagctaaca caataagaaa tgaattgaaa gtctcggatt caaaaactta 420
cccgttgaag aacga 435

<210> 32612
<211> 451
<212> DNA
<213> Glycine max

<400> 32612

tctctgcatg atgaattgcc aaaatggatg gatccatgct tattgatttc ttttctgtgt 60
atgtgacagg gggggaaaag gagtgatggg cgaacacctg acggaatacg tccaattaac 120
tcgagatgtg gcctattacc tatagcacat ggaagtactc tttttacaag aggcgagaca 180
cacgctctga ccactttat ttgttttcca gtttatgctt ttgatgatat ctgttggtgt 240
ctatatatgc ttatgcaagt cacattatct cttttctgtg tttgttagtt ctattagaag 300
ggagatagaa tgatcaaaca caaaggagga acaaaactaa taatgctgac tccttggacc 360
tttaacacac ttctcattta aagtctccaa ttgtaatcaa cttggatata atctagaaac 420
tagtgattgg aagtcagtat tctgattact c 451

<210> 32613
 <211> 205
 <212> DNA
 <213> Glycine max

<400> 32613

tgagatgacc gagctgcgat ggagcgcagc tggacatagc ctgtatctta atctagcttg 60
 atccaatctt catcttattc caagctgcta tccatggact tctatggatg cgagcttctt 120
 ctagaccag caattcctcg aagtggagac tccgctgtct aaaacttata cataccttcg 180
 actctgcctc tccctaataa aaacg 205

<210> 32614
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 32614

tttgtttgtg gagtcgcctt tgatctcaac tgtaccatat ggaataacat tagtaacaac 60
 aaaaggacca atccacttag acctcaactt accactcatg agtccaagcc tagaattata 120
 caataacatt ttttgcccaa ccacgaagtc ttttttaact atcatgctat catggaactt 180
 ctgctctctc cctgcagaac ttggcattct cgtaggcttc tatgcggatt tcatctaact 240
 cactcagttg caactttctt tctcaccag cttgatccat agagaagttg caagtcttca 300
 ctgcccagta agctttgctc tcaatttcca ctggaagatg acatgccttt ccaaagacaa 360
 cccgataagg agacattcct atgggtgctc tataggcagt ccgatgtgcc caaagagcat 420
 catcaagcct 430

<210> 32615
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32615

tattacataa gagatccacg aaggagccca aaggcgtggt tagcacgaat cccgcgctaa 60
 gcgagctatt gccgccatac tcaataagcc cagacgctgt cgtgctcagt gcatgatcac 120
 accgtcatac ctactaagct cagaagggtg cacttaacgc gaggtcgcat aaattttaac 180

tctcctcggc tataaaagga ataggaagca naggagaaaa atgcaatgag actcatagct 240
 ctctattgaa tacactcaaa gcctgaacat ctctaatagg ggaaaccctc cttcttctat 300
 agtcattttc tactttttctt acttttatcca tccttattct tttctgggat tcattattat 360
 taatcgcggc ttgactaccc atgctaattgt attacttagg aaggaatgca tttaaaaatg 420
 ggtattttct agagaactag aaaatgac 448

<210> 32616
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 32616

tcatatggag ccatgccaat ggtagaatga acactattgt tatatgtgaa ctctatcaac 60
 aggagagAAC actcccaact ccctttttgt tctaatacat atgctcttaa aaggctctcc 120
 gacgactgaa tgggccggtc agttcggcca tcagtctaag ggtggtaggc tgaacttact 180
 ctaagcttgg tcccaacgct ttgttcaaac tcttccaaaa cctagagggtg aatatagaat 240
 ctctatcaga cactatgcta gatggcacac catgtaatct gacagtctca ctaatgtaca 300
 gggagcgtaa cttctctaag gaaaacctaa tattgatggg gataaagtgt gtagatttgg 360
 tcaatctgtc aacaacaacc caaatagaat caaaacctct gggggtccta ggtagtccta 420
 caacaaaatc catggagata ctatcccacc 450

<210> 32617
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32617

cgtagcaaca aaatgcanaa cattttctaaa tcaagctggg ttaaaagggtg aattntgcag 60
 ccatgggaag gaagattaaa gataagcatt ctgaatcata ttggctcaat catcaaacag 120
 agtgcaagag gactcttttt agtattatta agtatcatcc cctattgtgt catttctttc 180
 cagacttgct acaacagggg tggatgatgaa agaaatgtta caggtagtg cattttcctc 240
 atctctgtac aagttctcct ctttgccatt ctactaatca ttaattgatg tagtagcacc 300
 tagaatgaat tttgtgctct aggttaattg ttaagagaag aattttttat atctaactaa 360

tttatatatg gaaattgttt gagcaaaatg aaattctctg aagctttgat caaaacatta 420
gcaaataaca acggaattct 440

<210> 32618
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32618

nntgatttta aatcttgggg ctacgagaag ggagattgga tgaaagactn tgttctctag 60
acaagtcttt atgatttgag cctatgataa atctacttgt tggattttca tgaaatttat 120
attattttac tctatacaaa atttgaaaca atttcatgtt gaagcccttg agagatgagg 180
tcatctgacg cccattgtga catgcaaggc gactaccttg ttttgcaagt tgtgtctagt 240
aatgtgttgt tttctttaat tcttggctta tgtagtgtgc aacttgaaaa attgggtaca 300
ttttattaaa ctagaaagaa aattattttc aaccatatat attagaaaaa ttatggattt 360
cagcttcatg ttctaaaggc aaaagcaaaa canagtggct gcaagaaaga cattctgtga 420
agtatagaaa aagtgttgga aagaaaatct tact 454

<210> 32619
<211> 448
<212> DNA
<213> Glycine max
<400> 32619

tgcagaagct cttagaagct gtcctgtgat ctgtcaccat agcctatgct gtagcctcca 60
ttatgaacta tattttgtac tatctgtcaa ttctogtatg tatatacaca cacacacaca 120
catctcagca aacaaaggct gaggatcctt tttgtgtgca tattttcata ctcaaacatt 180
tcaacattat gaacatattt ttaaattata tagtttggtc ttaatactat caataaatat 240
tattataagg tcaacataat aattattata ggacaaataa taatgacgtc gcgaaatcca 300
tgtagcagac ctcatctagt ggaataaagc gtttgttgct aattacttga gtgtttggca 360
ctagactatg actttgggtc ttgattctga atatacttat aattttgata ccttgtaatt 420
attagcatgt atatatgcgt agtataaa 448

[illegible]

tcataaatcc atcactttta atattctttg tacacaaact tatttgatgt taatttaaaa	60
attatttgct caaaaaggaa aaattaaaag agaaaaatta caaatcccta tataatttaa	120
ccccaaaata ttctcataat tagtagttat cactcacata tcaacacatg ttcaaattta	180
cacttacctc aatctcataa caatgctata atctcatgat tcatcgtata ttcaatttat	240
cacttacaca caattttaat tacaatttca tgatctcaat ataacaattt attacgctaa	300
tatagtaatt ttgtccaaaa tacaacaaaa ttatacgaaa atgtttctca caacatcagg	360
aataaaacccc ctcaaacaat ttcacataat catatatgaa gaacacaata caatatatat	420
gccacaataa accccaattt gatcccctaa ggatctctac a	461

<400> 32621

tcta	atgag	gcct	agcgtc	agtc	atgaaa	tcaag	tcgcg	gcacc	gaaag	aatca	aacaat	60	
tg	tctac	ag	gtgg	tggggc	tcgc	gaaagt	gtgt	ccgtga	ccac	gttgg	tacac	cggcc	120
tt	gtact	gga	tgt	gatactc	ata	ccccaat	aatt	tg	gaga	ggtag	ta	atg	180
tct	ggata	acc	tg	catcatca	act	cccagag	gct	ctt	gtgg	tcg	gttag	aa	240
cct	accaag	ag	atatt	gcc	tcc	actttct	tac	agtc	gca	acga	tag	cat	300
aat	atac	gta	gagg	cataga	ggag	ctgatg	gcc	aagc	ctt	tact	gaag	ta	353

<223> unsure at all n locations

tctagccaaa tggacttacc ttgacttaat tcctttgata gtccttttga gccttgtttc 60

cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat atcaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtgtggg tttttgtttc 180
 acgcataaca tgtttgttgg ccatgcttca tgatatattt tgagccatac ttgatataca 240
 ttgcatattg gttaaatggt ggacatgctg aatatgatgt tgtttctcat aaggctacag 300
 agcaaaaaaa atatatatat tataaaaaaa atcgaataag acaaacagta aagttgagtg 360
 aataagacaa gaatgatgag actccttggt ctactctnta tgtttaaatt ttatctctac 420
 ttctttgtat cttcttatgt tttcttaata tgca 454

<210> 32623
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32623

tgagatgagg aagtgttgaa gggtgaaaact tcctgctttt attggtgacc acagagtggg 60
 acctggagat atgtcgcggn ggtcaggaga ccttgnggac gtcaggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca agccgggcat agtcggtcag tgagaacctg 180
 tctgtaccta acaggcgagc tcctggcagt caacagataa aaggaaaaca agaccacaaa 240
 gcaaggaggc ttgtggtggc tggccagctg tgaatthttgt gtaatatgtg gattgtggcc 300
 tctggtaatc gattaccaag ggtgggtaat cgattacaag gcttaaaatt gaggacagga 360
 ggctaagatg gtctctggta atcgattacc aaggggtgta atcgattacc aggcttgaaa 420
 atgaagtca 429

<210> 32624
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32624

taggtgtnc a tttgaaaata ttntcgtcac gctctaattgt acgtgttcat actggcagtg 60
 gcatgcacac ctccacatag taattgaagc cgaaacataa ggcataggca acaaattgag 120
 atccacagat tagactatca ccataagaga gtaagagatg aaagttcaat taatgtgatt 180

tgcttttggg ggacagtga atgtgactgt agatttgggt tgtgcacgct acggatgttc 240
 accttttttaa gctctggtgc agccgcagta aactgttcta aatgtggcta ctgcctcttg 300
 gcctactcaa aaaataaaat taagtcttaa tctaaccata gtaactaact gtcacctttt 360
 ataggatatag atgaatccac aagtcttaac cttaattcaa acacanccgt agtaaatagat 420
 tcacatttgt aaggattaaa ttataaa 447

<210> 32625
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32625

ctannaattg aattaaaacg ttcagaaagt gctggtaatc tattaccata tatgtgtaat 60
 tgattacaca gtgcaaattt tgaattcaaa ttttaatagc tgttgtaa at catctttggc 120
 cactggtaat cgattacatc ctctggtaat cgattaccag aaagtaa atc tcttgaataa 180
 agccttctca cttaatttct tggccaaacc ttttgctact tcaa atagga attcccttcc 240
 tatttaatat acccttccta agactctaga aactgtcttg atcatccatc ttgaatatct 300
 ttaatttctt tgtcttgaat aaatctttga gaaacaagt atcatccatc ggcataatca 360
 aaacattcag cttgatcctt tgtctacaca aaccacaaga caatggagga tatacatgga 420
 gaataagatg aagaacaag 439

<210> 32626
 <211> 239
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32626

tatagccatt ntattccacg cntttagagc cttgcacatc attttattac acccctatcc 60
 attttagttt gatcactaac aaacttagtg actctgcgga atgcaaagat acacatgttc 120
 tcttttgatt ccacgatgct gggacatcaa cgggtagaac ttattaatcc tgaggggtctc 180
 cccagacctc aagaggatac tctttaggaa gatggaaacc acaggtgttt attatgctt 239

<210> 32627
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32627

tggganagtc ctcttgatac tatttataca tttttgactc tatggcatga gatgaagtgc 60
 aaagattgga cctcttgcta gttgttacta atgaatagct taaacccttg tgcttgagtg 120
 aaacagtagc cgtgagactg tggtttaagc tactttcctt aatatttgct ttatgattcc 180
 ttcattctatg atacagctta cattttattc ttctctttga aagctgcata ttttgtgaaa 240
 gacaagtgat gagtacataa tgcttcattt ttttatcatg caatcagtaa tttttgctgc 300
 atacaccttt gttgatgac actgcatgtt attgtcactt gaggacaact aagttgttct 360
 ctttttgctt gaggacaagc acaattgtaa atttggcgga gttgttagtc gatgaatacg 420
 actaaccttt atgtataaaa 440

<210> 32628
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32628

ntgagctcag acattagagt tacgttacct cgaagattcc ggtgagacag atccaagccc 60
 tccaccattg agttgttacc acagctgaca ccttgccaat tgcagtaatc tgagttgttg 120
 ccatcacccc atccaggac tctcagctct tggttgatgg catgtaatat atcttggtcc 180
 cacgctcaga ccaacaagtt cagaacttga aagacaccaa gctaccagta tatacaacaa 240
 caagcataga aattccatca ctgtacagtg tacactgttg ttctcttctc ttctctgctg 300
 aagcgaagtg ttagtgttta cactccactc aacagtgttc ttctccaaga gccaaaaaat 360
 tggatcaac actctaccac agcatthaaca acttttgctg cttgttcttt tcaccaaaaa 420
 aaagtgcaaa ctttctttca ca 442

<210> 32629
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 32629

gcggcgcgcg cgcgntttga nngcctcgac tcaactctggg cgaattcagc tcgtaccgcg 60
gatccctaga gtcacctgcg gcatgcagct ttatatTTTT atgctcatgg ttggtattca 120
tactattnca caaaaacttt ttgatataaa taaaaatata ttcacaaaaa actttattaa 180
aacaaaaaaa ttagaacttc cataacataa tcacatgtaa aatgggtata ggtaaattatt 240
aaatagcctt aaaaatattc ttgtatctta ttttgggggt gagaaaataa atatgattat 300
ttaaagctcg atcaagggtta acttttaatac aaaattattt tattaaaatt aactcgatag 360
tatcgacaca tataatacaa aatcttttaga gtcaatgact ccataatact aaataacaaa 420
gagctttttt aatcatctat atattattat gttctaagtc tttttttttc actt 474

<210> 32630
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32630

cacggcgccg cggtncttg atcctcgagg catcgagctg gcccgggatc ccttgagcta 60
ctagagctgc agcttgaccg tttgactgaa gtgcgacctta actggagtga cgactgcttg 120
accatactat tgatgaatat tgaatttaaa tgaatgataa ttaggactga gaagcatgat 180
gtcataccaa ctttgaccat aactactgat gaactggttt ttgctccatg ataaactatg 240
attgcataac tgaccctgac ttacatgac tatctctaata actttgttaa atctatgaga 300
gcatatggct cagcaccatt tactctaact tggggagaaa gtgaaggatg aaagaaacgg 360
taagatcaga ccacacaata gtgttgtaaa aacgagcgag atgacagata ttgcn 415

<210> 32631
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32631

agcttgagaa attacctttn tgggttcaaa aacaagctaa tgtgagaaca ctctatatg 60

aaacaagaca aggttgagtt gatgggacct tgtacgcatg ttgtgacatg tgtggattgg 120
 atactttgcy gaagggcata atggaagatt ggagggtttt ttattattat ttgggaaatt 180
 ggagggttatg tcaatgattc ttttaattta ctaacatagc aagctttttt attattattt 240
 tcatgcattg acaatataaa ttgtgttaat ctgcaattaa agataatctt aattattttc 300
 atggatggaa aaacttgga tttgctctca ttgtttttta taaatgatat gggtctttta 360
 agtaaattat ttgaattata aaatanaaaa ttgtattctc aatttataaa caag 414

<210> 32632
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 32632

agcttgagac tttttaactt tgcaggcggt caccagacat ttgaacttgc catcgaagat 60
 cgctatggaa tgaatcctga gattacttca ctcgatgccg cgccgctctg atgtacacca 120
 ccacacctag aaatgacata agattaccgg gagcacaacc tcagctccgg aatagatggt 180
 tatccgctg acattgtctt ctaaagtctt cacatctgac cgtaactgct atccacctgt 240
 gacatgttgc tccagatata ggggatgata ttgaaatagc aaacggatgc gtggaatcca 300
 ttgcaatgaa tgcttgtcta gagcaactat gttttgcctt acctaaatta gactgtgatg 360
 gccaatctg 369

<210> 32633
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32633

agcttgagat gttgtagtgt tgaagggtga aacttcttgc ttttattggt gaccacagag 60
 tggtagctgg agatatgtcg cgggtggtcag gagaccttgg ggacgtcagg tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccga cccaaccggg gcatagtcgg tcagtggaga 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
 cacaaagcaa ggaggcttgt ggtggctggc cagctgtgaa aattgattga tatgtgagat 300
 atgggtctctg gtaatcgatt accaaggggtg ggtaatcgat tacaaggctt anaaatgaag 360

acagggagct aagatggtct ctggtaatcg attaccaggg gatgtaatcg attac 415

<210> 32634
<211> 248
<212> DNA
<213> Glycine max

<400> 32634

cttggcttgg ttcaacgatac aaatggatgc .cccacattat ttccatgaca caaatgcaaa 60
aaatgatgat ttggaaatct tatgcaaac tggatcatga tgcgcctatg cggacgccta 120
agtgtcaaat aattatggcc atgtttctgg ctttgattaa tgccgggcca aaaagttgta 180
gcgcacggga ttttggttgg taatcaaaag gagaacacat tttatgtcgc ggtttccttt 240
ccttcttt 248

<210> 32635
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32635

agtttaagac tntggagttc atttgcggca tctgaaccat gccacctgca cacgcgtgcc 60
atagctgagg atccaatacc ttttcacctt cttcatgga aacaacaaaa aaaacagagt 120
gtgttcaaaa gagaaaataa tgtgtttttt gaagtttctg ttttcttcaa aggagattca 180
tcgcgcganag tacaagcacg agctggtttt tgctttttgt tcttttagat ctctgtgagt 240
gaaagaaagg gaactaaaac tacttctgtg ttgttggttac ctttcggaga ctattatgag 300
cgaaacaaac gaccaaaccg acctcttggc cagcaaaagt tatgtttatt aaattgctct 360
gttgaaataa ataagaatag aatgcgaaat gaaatttatt tttgg 405

<210> 32636
<211> 375
<212> DNA
<213> Glycine max

<400> 32636

agctttgttt attgctaacg ctactaaaag tagcttttgg atccaaaaga acgtgagtca 60

ctggatgatc caagtaaaat actcctacta cagaccttat gagccactgc aacgaagcac 120
 acacaggaag acatcttaca gatctacca tatcagtaga tcacatgatg ctacatctga 180
 tagagaccat atacatcatt gatgggatac aatcttactc aatgccatta tggacgttaa 240
 tgttcttacc atgagtagtc aacacatatg caaaccataa attcaataat aatgatcatc 300
 atcttaaact ctatacacta ttctaagcag taataataga tatattaaaa tgatatatta 360
 gtcccgatga tccttgc 377

<210> 32642
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32642

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 tgcgtaagta ctacggcac caaaggcaac cagcagaaat agtttctaga agatcagtcc 120
 tcaaaagcag cacttacagc tagaactaaa agatatcatg aagaaacaac taacaacaac 180
 aagcacacca actgtcaca ttttaaaata tattgtttta agaaatgatt ttttatttta 240
 ttgattcttt aagataattt taaaataaac aaatttttaa aaaataagtc atagaattta 300
 tatatatata tatatatata gaagagaaac tattctagaa ctttatgata aattaagaac 360
 tatacataca aaaaatatgt tgaactgatt ntgatccata taatatcaa 409

<210> 32643
 <211> 415
 <212> DNA
 <213> Glycine max
 <400> 32643

agcttcttat ctcttgctca tcttggtggc gaagctcctt cttccttggc ttattccctt 60
 gtggatgggtg cctcctctct cctcttctcc ttgcttctt gctacatctc catggctgaa 120
 aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
 gcaagcttcc atcaaagtct atgatcttta ttcttcaata cttgtgttga ttattttgat 240
 ataattgaat atatacatga ctattttttt taaaaaaaag gattatgcac gattttgaat 300

gtgatatgtg aattacttgc ttaaggttct ttcataaagt gttttcaaaa atttaacgtt 360
atatatatc ttttgaacag tattttgatt ctcatcctaaa tccaattctc cctta 415

<210>	32644
<211>	396
<212>	DNA
<213>	Glycine max

caggtagcag agttgccctg gattcaccta acgactactt tccttagcac acttatgttc	60
aatatgttcg atttggcatt gagatctggc ctgaatcttt tcctttgaaa actattctat	120
ttggcaaadc ttcccaaac accattgaac cactgatgga ggctttggag gaagattata	180
tagatggcaa taagatgaac gaatcacggg cagctattga acgagtatcg gatcttgcac	240
agagaatcaa tagactagat acattgactt agagattaca tataacacac tcttggattg	300
ctgaacacag tattagccta taaaccagat ctttaccact ctgtagatat gcttacctta	360
tttctgatac gaggcataata caatgactcg actgcg	396

<400> 32645

tccacttaac ccattcact gcctttcact tgactttggt ttaacagcat acacttattt	60
gaactcttct tccccaccc ccccttttt tacttaaaac attgtattaa tttgatgcgc	120
gcggtgatga ttcataccct taaaattatt catcaaaca actccccca agttggggta	180
aaattgcctt aaaccaatgt gctctcctaa aaccaagcg tggatcaatgg agatgacaat	240
tgaaagccta aggtcaatt tgacaac	267

<210>	32646
<211>	407
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      32646
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agcttctcaa ggaggtgagc ttagttctta gatgggtgtg tgtagctaag ctctagcttc 60

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<223>      unsure at all n locations
<400>      32647
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<210>	32648
<211>	409
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      32648
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13606

<213> Glycine max

<223> unsure at all n locations

<400> 32651

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gtctctaaaa aggtgtcaaa ggattggtaa gaagctatgg agaactcttag cctctaaaaa 120
gttaatttct tccctcaaag aattggtaag cttttcattt gaatcactta tgaatgccga 180
tgaggaaaac cttacttttc aattttatct aattgcgctc aattctattt aattacactt 240
aattaacttc tgtttatagc ctttaccatt ttgtaaaggt ttaatcctct aatgagcttg 300
tttatattac tggaatgaat ctattctgta cttntcaagt actctctcct atgtaaaana 360
caaaaactta agtctttgtg ttcaat 386

<210> 32652

<211> 337

<212> DNA

<213> Glycine max

<400> 32652

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acataattcc caacttttgc actttatctc attccatata cttatgaaca caaaaagggg 120
atctggagga ctttatttgg cttgtaatga ggggtgggctg agaacaattc atttgttttc 180
tacgatgcaa aacttaagtt ctacgagagc attcatccat taatcacctt ctctttaact 240
ttccagcttt tattgacatg ccacaattaa caacacacag agttttcttc attcttgatg 300
ttctttcact ctcttttctt tttatatttt ttcttat 337

<210> 32653

<211> 357

<212> DNA

<213> Glycine max

<400> 32653

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tttggttaata tataatgccc tcgttatatc ataatacctt cacaatcctg aattataaga 120
tggtttgaga gaatgaatgt attactttat ataagcttaa tgatcaagtc ttagatgtag 180
taattattga tatctctcca tctccttgct taattattct ctcttcaaatt atttatgaca 240

tatagttatg ttattgatga aataagagaa ataaaataca gaattttaaa atgagagtat 300
aaagacgtga tagattgaat ataattaagg aaaccaatta tttttcgtaa gagatat 357

<210> 32654
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32654

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tgatttattt gctataatat ataatacata catattttgc ctatcaaaaa aaaatccttg 120
actttctcag gcaagtctta aaagaaagta tcacacgggc taccttggtt taagaaatac 180
ctcaataaga aaaaccacac taagtcttac cttggcaaca gcataaacac caaaaagacc 240
cgtgtccttg taattgggtg tgaaagccat aatgctctca gcaacttcat taatgccaat 300
tcgctgtgct aactccgaac tgtttatagt caaaatgcat tcagttagta tcaggagag 360
aacttttctt ttntcaggaa ggggcgttca agtcacatac cccatgtggt ttcca 415

<210> 32655
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32655

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taaaaatatt gagattctgt tgaaagtatg gatagaagag gtgaatgctg gaaataaacc 120
tcacaaccac ttactaagc ttggttgggc aaatattaca gaaaagttca ataagataac 180
aaatttgaca tatgagtata aacaattcan aaataggtga gattctttta aaaaaaggaa 240
tgacaattat gggctaatta agcttattgn gaaggacact agtcttggct gagacggaga 300
caagaaaacc attgctccta gtgatgaatg gtgggaagcc aaaattcaag tgtgtactat 360
tcaactaaaa taaagttagt tctagttgca tgcattgaa ctctcttcag t 411

<210> 32656
<211> 381

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32656

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cttttggtt ttttgatgaa cacactaagc atgccctatc ctactaagcg agtgtatcat 180
atTTTTTTTT aatttttttg caattttgta tgaacttgct aagccactgc actacggctt 240
agcaagcctt tgaatgtctg tatttaattt ctacgttcgc atgaactcgc taagccgacc 300
atctgcgctt agcgagtata cttagctgag tctgatactc agaggctttt tgcattcttg 360
gtgcggtctaa gcgagccatg c 381

<210> 32657
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32657

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attataggaa caaatgaat aaaacgctaa atcgcatgaa acatatattt aaatctaaaa 120
ataataattt ttagcaacat ttaataaaaa aattaattgt atacattaat tacatgtaat 180
aaatttatta ttttatttat aaattgcatt aattaatatt caaatgcttt aaattcaaat 240
ataatcgtat attcaattat acaatctatt tatttttaaat tatcttttat gggatataat 300
tgatcattaa attaattagt tcaattatac aatttcaaaa aatctaatta tttctgggta 360
aaatatttat tggtaacata attaacatat atatcgggta taatt 405

<210> 32658
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32658

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<223>      unsure at all n locations
<400>      32659
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<210>	32660
<211>	393
<212>	DNA
<213>	Glycine max

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atgatgggag	gcacaacaac	aaatgttgta	tatgagataa	gaagctacaa	ttcgtccttt	120
gtaatcacag	ctttcctaag	cccaatgaac	aaacaaacaa	cgaaatttaa	caaattggaga	180
aaagggtttaa	gaataacaat	gtccaagcag	atgaatggac	ttattggaaa	ataacatggt	240
atggaagaat	gaacatatac	taggggaatg	aggtccatac	catcaacttc	atatcacatg	300
aacagaagag	agggaccgtg	gaaatttcag	cctcaaacga	caaagacagg	aatggatct	360

accatattta catttcttaa tggattggag ata

393

<210> 32661
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32661

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attgcacgca agcgcatact cacttgacga ttgagagtat tgaagccttt tacgacgtag 120
gctttgaaga ctataccacc gctgcataat ccttgactaa agagacgagt cttctacttc 180
atgtacttct tcaccaacat ttctagcaca cttcttcacc caagagccat catgcacatt 240
tatataagcc atggatgcta tgactgaagc gcctgtatag aatgatctct tgattggaga 300
ctancgttca cactcacgac ggatgctcga gcgctgaagg ataatggtca caagatgatg 360
atggagcaac ggagcattcg atgcgatatg cttatgcatg tgacatatac catggatgg 419

<210> 32662
<211> 370
<212> DNA
<213> Glycine max

<400> 32662

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ttctcaattg gcacatcttt tcatttggtt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gctaagagtt tttaagaaaca aaaaggctct atcctcttaa 180
aaagcaaaat ccgtttatcc tcttacaaat tccttggcca aaacacttgt gattcaataa 240
ggaattattt gagtgcctcaa attgctcaat ctatctcttt caagagagat ttcttcttct 300
tttcttcttt attctgaaca gggattaaga gaccgagggt ctcttggtgt gaaagaattc 360
taaacacaaa 370

<210> 32663
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32663

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gaggttttat tatgagttga tgtgtttttt gcaagtgcgg ttagaataag aataagaatt 120
gggcttttgt gcaacagtta gattttgatt gatggaagct gagtttgggg ggaagaatca 180
gtacttgtat ggacctgtgg tgtctggaat gaagaaagct gttgttggga atgggaagag 240
gagtttggaa tgggatctga atgattggag atgggatggt gatcttttca ctgctcaacc 300
actcaattca gtgccatcag attgtacggg ttgccagttt tttccacctc atcctgaaat 360
tcctgcaaaa natgctaata catctacca ccaattgtct tcttctgtat tcattcttacg 420

<210> 32664
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32664

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tgtgctcaaa tatgtggggc aattctgggt tgccttcttg cttggatggg ttgaattggg 120
ggtttgtatg agatggccct aggcctataa tgtattttga agcaatgggg catgccacat 180
tgtccccgtt ctcttgctat tgatgcctaa acgcgcgccc accaagtgtt cggtgaaatg 240
cctcaatggc attagcgcgt gattcttgta aggaacaac ctatgggaca atttggtttg 300
cacatgtttt atattttttg ggacatgtat tcagtttctg aagggttaga gtaattgtcc 360
cacacatata ctatgcctat gaaccaaagt ttctatgcaa gagaacac 408

<210> 32665
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32665

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gcacaacagt tttccacata cacaaatcgc gcataaaccc accatcccct gctgcccacc 120
tccaaactgag ctacgtacg cccacgtagc ccatatcctc gtttctctca acaccggggtc 180

cccatcaatc ctcccaagct ttccccaaca tccaagtaat tcaacattca aacaacacaa 240
 actatcacag ccaagaaaac agggcaaagg cagaaaactc tgcccaaaac accgaccaa 300
 atcacagctt ttctcactta aagaccccag taacaattcc ttcgttccgg ttcattaacc 360
 gttggatcga ctcgaacatt ntactggaag tctctagtagc ataagcctac attctgac 418

<210> 32666
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32666

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 atatggaaaa aggattctac accaacaacc acccttggtc agaggcataa aatatgatta 120
 ttggaagcaa caaatgatat ctcaacttga atccattcat attgacctat gggatgatgt 180
 ggaaaatgga aagtgcattc catacgatga tcagttaaata gaaattccta caagttggtg 240
 gatggagaag caaaaactta gattcttgct cgactccaag gctcacaatg tgatgctatg 300
 tgctctatca gaagaggagt acaccaacgt acatggctta taaagtgcac acaaatatat 360
 gacactctag ttgttacgta tgaacgaacc tcacaggtaa agaggagtaa 410

<210> 32667
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32667

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 caaaacaaga atggaccgct gaatgtgcat agaataaatt gaaagattca aatttgaaaa 120
 cttaccagct gaagaacaaa gaacaacgaa gaacaaaaga agaattggtga agaacaacca 180
 tggaatcgat caccgaaatg tctcgaaagc gttacggaag caccctgggt tgaattgtct 240
 ccttctttct tcttctctc actaatttca agtgaaagct tattgcacaa caatgttgga 300
 ctcttaaact cagccccctc tccctatnta tagtgga 339

<210> 32668
<211> 115
<212> DNA
<213> Glycine max

<400> 32668

agcttgtata atattcttta ttactttaat ccaagaaagt tagtgaaata ctctctgga 60
agtagattta gatcacgcaa caagaatgaa ggctcctggc cacaatctc ttgct 115

<210> 32669
<211> 409
<212> DNA
<213> Glycine max

<400> 32669

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aagaacagtt gactaatgag aatgaaagg gagattgaga agaagaagaa gggagtacca 120
attccaatgt agtggccaat ttgagcgtcg acccatttat cagcgtcgtc atctccacag 180
tacaagttgc acaccttgaa tgaatgggag tgagaataag aacggcgaaa ggaataagcg 240
aattaaatgg gaaaaagcta caacgaactg cagcgtacgg gtgagcgaag atgttgatga 300
gagccattct ggcgaaatca tagagggcgt tgtgtgtaga ttgacttct caccgccaat 360
aatcctttct cttcttcaca cttcaacctc aactatggat tccacacac 409

<210> 32670
<211> 280
<212> DNA
<213> Glycine max

<400> 32670

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attgcaacag tgctctagaa cgtactggta acgcctttcc tacgatgtca tagcgacgcc 120
caccattact atcacgcatg ctgcacagaa cgagaatgcg acctcgatt ggatcacacg 180
gcgatatcat cagacgagaa catgcgcctt agagccaacc atcggaccaa tgcacgacg 240
tttagcgaac tttttctgac ttatagaacc catataacca 280

<210> 32671
<211> 407

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32671

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agaagattct ccctttntca atgacaactc agccttggtt catgttatta atgcatgcat 120
ttcacttggga tggctggatc aagcacacga tctccttgaa gagatgcgtc tagctggagt 180
tagaactggt tcatctgtat actcctctct tttgaaagca tattgccgag caaatagagc 240
tgcagatgtc acatcacttc tgagagatgc taagatagct ggcacccagc ttgactcaag 300
ctcttatgag gcaatgattc aatccagggt gctccagcaa gacacacagg gagcactcca 360
actatttaaa gagaggaaag aggctacaat tccaaaagtc actcaac 407

<210> 32672
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32672

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cccgtganct ttgacctca gacacccggc acaccaccgc cgcgagccca agagaccgca 120
gctgaacctg taaaaacccc acacccaacc gggaaaaccg cgacacatgc ccggaacaga 180
ccaaagcacc ccagaagac agaccaggac ccggcaccgg ccgcccacg cccaccgca 240
caccctccc accgcggccc ccgccgacac ccaccaccaa cccactgcgg ccacaccacc 300
gccaacgcca accgcgggaa ataccccaca ccccccgacc tccccccac gacaaccgg 360
gaggaccac aacgccccca gcaccacacc caccatccca cccaccacac accccaaca 420
ccccgcaccg cccccccac cccaccacca cccccgccc acacacg 467

<210> 32673
<211> 405
<212> DNA
<213> Glycine max

<400> 32673

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cactatggtc aggaaagagt gtgatgagtt aaaagatatc aacatgacca tggttgaagc 120
 gtttagagtgg gaaacaaaaa gggcctgaaa ggaagaatgg agcaggaaca agttttgaag 180
 ggctatgtgg ggcagcagta atgagctcaa gcttagaaaag gtcgagaggg acaaatcaag 240
 gatggaaaac atggtgttag aggataagtt aaagtcttgt aagagggtcga agataatttt 300
 gatggagtag ttgagaaaaa tagaagagaa tatgttgata atcattgatc aatataagga 360
 gaaggtaacc tggctactag tcatgggcat atgctggaag atgaa 405

<210> 32674
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32674

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 catatgctca catgcacaat ttgggaggat ccatggatca tgatacgtag agaaactggt 180
 atgtatactt ctggttagca tccagactca aaagatttgt ggatgctcct attaacctca 240
 agctgcataa gcactctctg cccaactgaa acttggtggt ctcaatgaag catgcgtctg 300
 aggatgacgg tgactatgct gtcttgctcg tgacaaagca ctcttaatat gagctgcctc 360
 tgatacggac ccgtggaacg cacttctctn gtgtgaccca gattacctg 409

<210> 32675
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32675

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 aacaaaaaaa aaaccattt aaaacaaaact atgatccata aaatttataa ttgtttcttg 120
 atgcataaaa atagtactcg cacagggtaa atgtaccata cactctagta acaatgaact 180
 aaaaggttca tagctcttac aaaccataaa ggttctctca caattcataa gagataaaag 240
 tgatcaaaag attattttct tacaaaagtt acagccctat ttatagcttc ctaatatata 300

tcagtatgaa aaggtacact acgattacag taaaatctac ctogatcatg gtaanaaat 360
 agtgacgttg aagctcttgc gcattgtgga tgcactgtgg ccctcatggt ttaccacaa 419

<210> 32676
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 32676

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 ggttaaggat caaagatttg attaaattca atgaggcttt gcttgctaaa tgggggtggg 180
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 ggagggattt gatttctgat aggaactgca gtttagactc tccttggtgg aaagacctca 300
 aggttatctt caagcagcag cagagcaaca caatttgcaa tcacctgaag tggaagctgc 360
 gatcgggaga taaaattagt tcttgaaggg ataagtggct acatcataat ctg 413

<210> 32677
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32677

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 caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtagttg 180
 catcctatcc ggaaccatat caaaattgta ctaatactgc ctaacaaagg caaccattan 240
 gtccttccaa gaatggactc gggaagattc caagttagt taccaggtaa cagctacccc 300
 agtaagactt tcttgaagg aatgtatcag caattcctca tcttttgcgt attcccccat 360
 cttctgacaa tacatcttta gatggttctt gggacaagta gtccccttgt ac 412

<210> 32678
 <211> 414
 <212> DNA

<213> Glycine max

<400> 32678

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aatgagattg gactgttggg tatcatttta atgaacagat ttcctattct gagtattctc 120
tttgccaaga caccagctgg attttgtctt ttcactaac atgtagcaat tccccaccct 180
cttttcttct tccaggaaaa aaatgatcaa tttttgtac taagaaaaat gtgcaaatca 240
ttaatgagtt tcatgttgct aggtttcttt tgtgattatt tataggagga tttggctcct 300
tacaagtgc gagtgaatt gaagatgctc tcgaaattgt gataaaacag atgcacatgt 360
aaaatacatt ataaaattat taataattgt aactctcgat tttcaaatca ttga 414

<210> 32679

<211> 538

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32679

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ctacagcaga cagcacgct tgcaagcttt aagaaacacg gccctaaggg cccaaccgcc 180
cactgagggga aaccccatat ctagagcccc caccctcaac ggagcggggc accactaccg 240
gaaaacaccg ccgccaaccg ccacacacgc catccaccca aagaccccg aagcactcaa 300
acaacgaccc aatagacccc ccatacagcc cggaactgca acaacacaca accccacaac 360
cacatgccac gaggaacaca cacaacaaca ccacctact tacagcgcca ccacaccata 420
caccgcccc agaaagacga aacacgacgg ctcaaaccga aaaccgcacc gacacgggac 480
acaaacaaga ccacacaacg cccagacgc acaacaccac gaccagcacc cccccccc 538

<210> 32680

<211> 399

<212> DNA

<213> Glycine max

<400> 32680

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gcttccattg ttcaatttcg agcgtctcga tatcttatgt gcctgaatct gacctccgtg 180
tgaaaagtta tgaccatttg aatttctcga gagcttccgt tgttcaattt cgagcgtctc 240
gatatcttat gcgcctgaat cggacctctg agtgaaaagt tatgaccatt tgaataactc 300
aagagcttcc attgttcaat tacgagcgtc tcaatatatt atgtgcctga atcggacctc 360
cgagtgtaaa gctatgacca tttgaattgc tcaagagct 399

<210> 32681
<211> 231
<212> DNA
<213> Glycine max

<400> 32681

tgagaaaaca cgctctatat tcatctcaca ctccaagtat gcctccggat gattatttcc 60
tttaaagtca ggaacgctga gcttaatacc atcgatctgt gattgactag gaacaccatc 120
atctccctct tgtgctcctg tcttctatac tatgatattt attctccatt cgacacatcg 180
cttcatggag cgcacatcat ggctgtccca ttaacctctc catatgatgc c 231

<210> 32682
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32682

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tggaaggcct ctcatcttgt acatgacaat cttagacgag tcaatggggg gtatgctagg 120
gcaacatgac gaatctggaa agaaagagcg cgctgtttac tacataagta agaagttcac 180
gacctgtgaa atgaactact ccttgctcga aagaacgtgt tgtgctttag tatgggcatc 240
ccatcgccca aggcagtaca tgctgagcca tactacctag ttgatatcca agatggaccc 300
ggttaagtac atctttgaaa agctagctct cagcgtggca agtcttgcta tccgagtttg 360
acatagtcta ngtcacccaa aaggcgat 388

<210> 32683

[illegible]

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tgcttatcct	ttgaagcaac	cttgtttgat	tcttctttgg	catcatcaaa	atcatgtatt	180
catacattca	gactttaaaa	tattttaaaa	atcaacaaac	tgattagaag	ttttgattta	240
cacaaactac	actcatttca	ttaaaatggc	ggtgctgcta	acctaataaa	agaaaaaaaa	300
taaaggtgag	attctaaact	gtttttcttc	ttcggaaca	ctacttctag	ttgcaacctt	360
gagatctttg	attctgctac	ttgtttttta	tattatttga	ca		402

agctttgtta	agaacttaca	aaaaaatcaa	gaacaagctt	gttcgcacat	cgttcgcgtg	60
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ggcggacaaa	agtgggcagc	taacttaaac	ggtcattatt	gtcaatgcag	aaggtattct	180
gcacttcact	atccatgttc	acatattatt	gcagtttgtg	gttacgtgag	cctgaactac	240
taccaatata	tagatgttgt	ttatacaaat	gagcacatct	tanatgctta	ctccgcacaa	300
tggtggcctc	ttgggaatga	agcgactatc	tctccttcta	atgacgcgatg	gacacttatc	360
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<400>	32685
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13621

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aagtgcatac cggtctttca ttagaggaag tgatattgaa atgcaacatc taatgaagct 300
tcttgaatga gatcaatata tttattggca tagattaaag gatgaagatg ttgtacgtga 360
tatcttttgg tgtcaccttg atgcagtga gttatgcaat gcatgtaatt 410

<210> 32686
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32686

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ggatgcccc cattatttcc atgacacana tgcaaaaatg atgatttga aactntatgc 120
aaaactgggc atgcatgcac ctatgcggac actcaagtgt caaatcttta tggcatgtg 180
atgctagggc tcaagattcg tttcctctat tttaatcaac ccaatgttnt caaaatatgt 240
tcttttatca atttgtgcat tcatccgagt ccatttcggg cgcccgnga aatttcacag 300
cattcacctc tcagggtgag acacattctc caaaaattgg ttatgatcaa tgaactcttt 360
cacagaacag ttggaaatcg tttcttttca caagcatgct 400

<210> 32687
<211> 413
<212> DNA
<213> Glycine max

<400> 32687

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gaccaccgct ctttcttccc acaatgcttc tctttatata tgcctgagtg ggtttatagc 120
ctaaaccata cttcccacga tttccttttg catttatcaa gctagttatg ccgccgttgt 180
ctttgcttaa acccattccg ggctcgtaac cgttcccaa cataactcgg gccatcatta 240
ttgctgcata ggacaggcaa ggctgccag agaaggagtc cacggaggaa atgctgacca 300
cctcaaaaga ctggaaagcg gattctaacg attcttctgc ggcttctaca taaggcatag 360

aggatgggca gctcaccaag atgtcttcct cgctgacac gatgacaaa tgc

413

<210> 32688
<211> 371
<212> DNA
<213> Glycine max

<400> 32688

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agacatagct caatggctga ttgtaaacga tategtggcg accatgagct accaccaaca 120
ggcaacaagt catgcaccgt tggggcttac aaaaggctga agcctaggtt gccaatgtgg 180
gctctgacta catcttgaac taaacctaac taaggccctt ctagctgagt aacctatc 240
atatctttgg acagccaacc ttactcggat tggggcatta tttaaagaa ctagacactc 300
taaagttgaa gcagagtggg gtcagtaagt actcctgcat tcggggcatg atacaactca 360
caaccatgga c 371

<210> 32689
<211> 234
<212> DNA
<213> Glycine max

<400> 32689

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aatatatcga gacgctcgta atggaaatcc taatccgtga gatgattgac cgacgatcac 120
tttttactca gatgtgtgat cgagcaccgt attatgtcca gacgctccat tctgcatacg 180
gaagctgtga gcaaagtcaa acaacaatca cttgtcactc agatgtctga ttga 234

<210> 32690
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32690

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tcaaggcaga ccaaaagaaa gcacaacagt gttatgcaga aagcctgaag gtaggaccat 120
atcctccac cagggagctt gccaaagcctt accccacagt ggctgaaggc actcaagtca 180

tgagcatgga cgaaggggtct caaatctgag cctgatcgt ctaccaagca agcctgggag 240
 atgaattcga catagatcca cgagacgata cctctaataag aggcctgaaa cccatcgaag 300
 agcttgcaac ttggacctaa acccgggcaa taaatgcggc tcaagaagga cctcactagt 360
 catgagaacc gacacatcac taatgtgcta cacagaaatg cggattta 408

<210> 32691
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32691

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 ttcattgtct cctctgaaga accttctcaa ctgctgcact gtgttgctca agttagccac 180
 ttgctcattc aatgatgtat gagccccctg caaacaatta cataagaaaa tcagaggagg 240
 tgtggctcac gaattattgt gcctcacaga acgatatgta catttaatat gtgcttaatt 300
 tctcanaata ctcataaata tgaatttgca tacaaggtaa cttcctgttt cttctctaata 360
 gcctgctgct ccagatgcat agctagctcc tcttaatagt ctcaaaccac 410

<210> 32692
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32692

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 cagtgtcaac agtgcaacta catgtagcag ctgataatca taatccatgt ctgctatacg 120
 ctagcaaagt gaggtgggtc ttatggagtg atctcttgca tctgaaaaag tacttaagat 180
 tggttgcttg gatttcatca ttagaaatac tccctctggt ctttctata agaaacaagt 240
 tttagtatat ttacactaaa acttgtttct tataaaaaag acaggagata atagctcata 300
 aggcacagat aagaaaagct tgtattgctc agagatctaa cttttttttt tatcaccttt 360
 tctcttaaaa aaattatgtg ctgacagcat gtttgctctg gg 402

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

gactttgtta atgctattcc aagagatcaa agcacgcac aaagcttaac cattaagcaa 180
aatgaacaag gtcatttggc agaagctcaa atcattgac catgaaacta tgacagctta 240
tccacgaact agaaactata cctcgaagct taaccaatta ccagaagtaa caagacttaa 300
ccgtcaagag tagaagccaa gcaacagttc aatgcttaac 340

<210> 32696
<211> 412
<212> DNA
<213> Glycine max

<400> 32696

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aaattcaata ttttttggga ttaaactggt agcacttate tttcgattgc aatagttttc 180
ttataaacta cctttaaatc tagttgtttt atatatattg tacatttact aatgttgctg 240
tttaaataatg aaagattcat ccatgattct gtaggttttg aggggttgtt gttagatcca 300
aaaacaaagc caaaatgggc ttttcacaaa gatttctaac cccaaattcc cccaggctag 360
caacctgctc gcctgggcta aagatcttac tttagcccta agcaagcaac tc 412

<210> 32697
<211> 415
<212> DNA
<213> Glycine max

<400> 32697

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atctcatgat acaatttgat atataggagg atcacacaaa agtcatggag gagggacctt 120
gatgcaatcc taccocgcac gggcattgga tagagaagac tccaagtaga ttgcgctaga 180
gctactaaag aaggccctag gatctcatga accttagggg agattcttta gcccatgggt 240
caagggtgga tccactattc tttgtaaatc ttagaatagg tttttcttc ttttgggctt 300
tgtatttttg tcattctagt agtatagggt tctagccttg tatttcaggg cattctgagt 360
agtctttgta gtacggactc tcttttttgc gtattttcat gtattcttgg aatga 415

<210> 32698

<211> 370
 <212> DNA
 <213> Glycine max

<400> 32698

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 tctcacgtag ctatctactt cttcattcac cattgaagct ccacacaaaag cttcaacctt 120
 tggccatcat ttctgccccca aatcgcgaaa ggagagcatt ttctggggtcg tgaagcgcg 180
 gtctacgagt gggacttcga aatttcatgt ttgggtgaac ttctttctcc tttgattttc 240
 gtgggtatgg ggttttgga gacatgatgg gtagttttgt tagttctctg cttcatgata 300
 gttatttggtg aagactcttg ttgaaagctt gttgaaattg ccatgtttgg atgagttaaa 360
 cataccatt 370

<210> 32699
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 32699

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 tcacagccaa gatggctggc gtcaaccctc aagttgctgt caccatcccc aagcgttgta 180
 acctgcctaa tcgccctgtt ggttacaagt gtggacgtaa gtgcgattaa ttaataatta 240
 ccccttcttt atatatacaa aggagagtta ctacgtgac actactttga taaagatgct 300
 ataaaaaaaa gactattcaa ttatcaaaat tgaaagaaat atacacatat gtatatatat 360
 aaatatatat atatatatat gactctttct atgataactc ttaagcttaa cta 413

<210> 32700
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32700

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 tatccagcaa tcgataatgt ggatggattc agcttctgaa cctggaaata tctcaaagat 120

cgatcttcgc attgctgata ttcaagatca tattcacaaa tgtaagcaat gtaactcaag 180
cattttctgag tactataccc gtctaaagat tatgtggaaa gaactagaat tgcatacatg 240
catgttgctg agtatatgtg ctagctcctg atcttgnggg ctgactgtca cactcgacag 300
agaacgtgaa gatgactgtg tgattcattc tttgtgtggc ctcaatgatg tctatgcacc 360
tgacacgctt atggaacctg tg 382

<210> 32701
<211> 389
<212> DNA
<213> Glycine max

<400> 32701

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acctagtaaa gcttttgcac ccaacataca atggcgatg cgcatctgtt tgaagagcat 120
cgtatatatc tgcatacatc tcccgacagc cctcttgccc aagatcacgt atcatgtctt 180
ccatgagatc ttcgctttgt agatcaaccg gatgaggtgg acatgttgct gtatgaccaa 240
ccaactcacc atgccatata cactttgtgt acgtcgggct aaagccatca catatcagat 300
gcgatctaata gtcatacaac gaatgacgcc tcccgtagaca catttaaacac aagggcagaa 360
gaagttgcca tctgtggttg ctgaatgta 389

<210> 32702
<211> 404
<212> DNA
<213> Glycine max

<400> 32702

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tttgcttttc ctatctagct tgcatacaca aagtcagaat ctgaaaagcc aattagattt 120
aaggaggcac ctttgggata acacatgtgg catccctaac ttaatgactg ttttaatagt 180
aataaattaa atagcagaaaa ccatggaaat ttttttttgc actgttattt atttcacgat 240
aattaatttc agaaggaaaa ttatcactat agagtctga gtggccagtt cacaactcta 300
ttcggattca tttctttctg atcactcata acctccaaac ttttttctt tttctaaaaa 360
aaataccagc catcatttta tgtcatcacg tgagaaataa taag 404

<210> 32703
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 32703

tttgcaagtc ttgcagcaca ctagcaaacg tagaattatt tggaacaaca gacgactgcc 60
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 tcatgagact ccaaggaata agatcatctt tcggcatttc ttcaaaaaac tgctgcgtct 180
 cagcaatctc tccagacttg gttaacaatt caagcagcac agtgccaaca taaagatccc 240
 tatcataaca cgctttcaaa gcacatccat gaacactttt cccaacctca aaattgttcg 300
 gtctaaaccc cataaccctc atctggcaga caagtagcaa cgaatcttca tggcagtaat 360
 tctcagcata gcaagccatc atcccagtc aagataccat gcccttataa ca 412

<210> 32704
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 32704

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 ctgttccctca aattcctgaa aaatgcaaag atccaggtag attcagcata ccttgtatta 120
 tagggaatag taagtttgac aatgccatgc taaatttaag agcttctgtt agtggtatgc 180
 ctctgtctat tttaattct ctatctctag gtcccttcca gtcaactgat gtggtaattc 240
 atttagctaa tagaagtgtt gcctaccctg ttgggttcat agaagatgtc ttacttagag 300
 ttggtgaact gattctccct gttgattctt atattttgaa tatggaagat ggattctctc 360
 aaggatcagt tcccatcatt ctaggcagac cctctatgaa aact 404

<210> 32705
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 32705

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cacccctcta ataactaagc tcacctcctt aagaagcttc ctttacaaga ttcttacaga 120
 agtgagagct tagttacact cacctctcta atagctaagc tcacctcctt gagatgagaa 180
 gctagagctt atctacacac cccctataat agctgagatg acgccgcatg ccaaaataca 240
 tgaaaataca aaaaaagtcc ctactacaaa gactactcaa aatgccctaa aatacaaggc 300
 taaaacccta tattactaga atgacccaaa tacaagccca aaacgaagga agaacctatt 360
 ctaatattta caaagaagag tggatccaac ct 392

<210> 32706
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 32706

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 actattcgat tctcactcat taatattgag ttacatttct cgctagcaac ttaacgtaat 120
 gttggtaacc tgtttaacaa cttgttggac ctttctattc gcaaaagatt ctttccagct 180
 atgttctttg tctatctatt gaattgtaat ggacagacta gtataattat caaatcattt 240
 aaataacgat gtttttttag atcattatag tcagagacaa gtaaagaagc gaatcaaac 300
 tatctgggaa ctcaagatgt gatgac 326

<210> 32707
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32707

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 tctgaagatc atgtgcctga acaaccctac tgaaggcagc tgaacaaaga tattctgtta 120
 cataatgcct tccagccaag actgtatcta gcacaatggg cagctccttg ttttcttcaa 180
 atccagtcct gtatgtgcaa taatggatga gagcaaatta tactcaaata caatgcacgt 240
 ctatttaaaa tacctaaaga gccagagtga agagccaaaa ttcanattcc acaataaata 300
 aatactgagt caaaatcacg atgcaattag ttaaaggcaa cacatccaat agttgacggc 360

<210> 32708
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 32708

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 tgattttgct tagctctaag atgcatcaga aagttatgtg aaccatcctt gatttcgaac 120
 taaatagttt aaaagggtcat gaacagtcct catattacgt attgaataaa cacttgagct 180
 tattttacca gtggatgccga gaagctcaat gaagtaaaga agagagaaaag attaacgtat 240
 tactgtatta cagttagaat atcaaagtaa actttaaaca ggtagagaaa caaggcgaaa 300
 gcctattaat catttgacga acatgatata ttgttattat ataaacaatt gttcttatat 360
 aaacaattac ttcacactat ataacatat 389

<210> 32709
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32709

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 agcattagga tcgcaacgca attccaagaa ttctaaccgt tggaaattgt gatatgatgt 120
 ctgggctgag ataaatatcc atcgcatcgt aaccttttcc tttctccgag aaacgcagag 180
 ttgtcttggt aaaactacaa tcccggtttc gttaaccgtt agattatcgt gaaattctta 240
 tattttgttc gtgatccaat cacgcacacc tncaccattg ggatttgcac aacagtgtct 300
 atggagggag aaatatgcat cacacgaagc agtatagaat ggaggcttca atcgtttctc 360
 tatctctcta atgtttggga actctatcag agcaatc 397

<210> 32710
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 32710

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gattaattca agtttcacat tggctagaga taagacaaag atagaatata taagtgggag 120
acaacctca ctctatgggc taactgttaa aattgagtta ggtccaaact cgcattctag 180
atggtatcag agcctatctt agatctatta acaggctacc cgccatgtta tcagcgcacc 240
atacccaaaa gtgctgctgg gcatgaggag atgtattgag aaaaacctcg gtccacatt 300
gattaaagat aacgtcaaga tagattatat aattgagggtg caacctcaa gttgaagtat 360
gtatgtcatg tactaagctt cttataaata aagtcaacct gaggccaagt gattc 415

<210> 32711
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32711

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agaaatatac taataactat gttatccttg tcgtgtatgt tgatgacatg ttgatcgag 180
gatctagtat ggcagaaatt aacaagttga agcagcagtt ggcaaaaaaa tttgaaatga 240
aggatcttgg tccaactaaa caaatccttg gtatgagaat tcttataaac aaatcanaag 300
gaattttana gctgtctcag gagaaatata tacacaagtt gcttgacagg ttttaccttg 360
aagattctaa gaccaggaat acccttttgg gatctcattt gaag 404

<210> 32712
<211> 414
<212> DNA
<213> Glycine max
<400> 32712

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ccattaagtc tatcatatgc tgacaatagc cgagaagccc atgaatctct tcgggggagg 180
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tcaacgtaag agcaaaccga tccatccaca tgggtgcctc ttggtgtaaa gagtcgatca 300
cccttcctct agcctctttt tccgcatata cttgcgcata ctcacccgcg attctatgct 360
cgtggggccgt ggctagacct aactcttctt ggtacttggc gatgatagct aaca 414

<210> 32713
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32713

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gaacgaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg tctcacaaga 120
ctctcattca tcaaagttac aaaaagtgtt acacatgctt ctatttatag actaggtatc 180
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gagaagctag agcttagcta cacacacca tctaaaaact aagctcacct ccttgacaaa 300
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caaggctaan accctatact aatagaatgg ccaaatac 398

<210> 32714
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32714

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gtccatcaag gctccattt cagaccaa atcgacaacctt tgtagctgt tttgagggcat 120
aactaaaact gtgagtcatg ttagggcttg ctttctctct gtttgaaggc aactctattc 180
tctcccttgg aaggcacggt tctctgttca acgtaacaa aaaaaatccc tgttttgcc 240
tcattttgtt tgaccatatt tcagatttct ctggcaattt tttaaatttc atatatttc 300
cctacatcag aatgaanaat gggttcaaaa cctgtagtc attcaaagaa tgacacagtt 360
ggttgctgct ctgctcctt gcaccacttc tctctgaatg atgactta 408

<210> 32715

<211> 400
 <212> DNA
 <213> Glycine max

<400> 32715

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 agggcgatgc aagggtttgc ttataagatt gtggtaatga tgaagagtga gcagctatgt 180
 gagtctcagg atggcccat cataactctct caggtaaact tttgaggtct ttcatttcat 240
 agcatttaat tttaatcttc attgctttct cttcatacca ctaatggcta tgacttatga 300
 gctcttcact ctagatctag tttaaatttt aatgatgcat tcatgattcg ccatgtgttt 360
 gctgctctag attgagaatg aatatacggc acaaagtaag 400

<210> 32716
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32716

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 ttcaatttgc tgctccccc tctctccttc tctctttctt tcttttcttc cattgaagca 180
 tcctctccaa gcttcttctc caaggctcat cttgggtggtg aagctccttc ttccattgct 240
 tattccctag tggatggcgc ctctctcac ctcttgctct ttgtcttcgg ctgcatcttc 300
 atgggtggaaa atcaccatta aaggacctca ttgaagctca nagatccagc ctctatagaa 360
 tnccacaag caagctctca tcactaatga cactgtcaac tctgat 406

<210> 32717
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 32717

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 aaatccaact ctttcactca attaaaaggc tatactgcta caagacaaaa ctagcatcca 120

aacgtgagtt cggccaagaa aatgcatgaa actgacacaa aaactcacac aaaatattac 180
 ataaaagtgg tttatcaaca ggcacgaacc acacgagcaa taacacaagg gtgagcttat 240
 aaaaacaaac atactaaaac aacaatacaa cttaacaatt caagcctaac cacatactaa 300
 aacaacaata caacttaaca attaaagcct aaccacatac catcgtatat agaacataac 360
 atgcagaagt catgtataaa acataaatct tagaactaca taatagag 408

<210> 32718
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 32718

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 aactaaaact gtgagtcatg taaaggttg ctttctctct gttcgaaggc aactctattc 180
 tctcccttgg aaggcacgt tctctgttca acggtcacac ataaaatacc tggtctgcca 240
 tcattttgct agaccatatt tcacatttct ctggccatta tctaaattct atatattctc 300
 ccgtacatca caatgaacaa tggcctcata accctttact gattcagaga atgacacagc 360
 tgcgtgctgc tctgcctctt tgcaccactt ctctctgaat ga 402

<210> 32719
 <211> 69
 <212> DNA
 <213> Glycine max

<400> 32719

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 gactactac 69

<210> 32720
 <211> 109
 <212> DNA
 <213> Glycine max

<400> 32720

ccaaaaaag ttgctaacat acaatcttga cacttaagct acaaattaag ccacatgatc 60

tgtttgcac cgcataaaac tcagcaactc accacgggtt aaattctac

109

<210> 32721
<211> 101
<212> DNA
<213> Glycine max

<400> 32721

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tattaccgaa aaaaggccgc taacatacaa tctctggccc t 101

<210> 32722
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32722

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tccaacgttc agtcgggtata ataccgatga cgcataattc agaattctac ctttcgcatt 180

gagtcgaact gtatactata tcttagacga atgcttatta ctctgacgtt tagctgtcat 240

tggaagcttt actttttaat cttaatttac aattcacaca tttattagct aacatagaaa 300

atatgagatc tcaatacatg catgttatta cttggaaact ctcaaattca aataattcca 360

aacttccaat aaaggataac ggtctgacaa catctttaa taaatatttt aaaagtgcct 420

agccttagac atggttacgt cgacctacgt taagttcc 458

<210> 32723
<211> 310
<212> DNA
<213> Glycine max

<400> 32723

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ttatgaacaa gaaaacaaag aaattgagca agatgatcaa aacaagcttc tgtcttattc 120

attgagcaaa aggaacttat atacagattg agaatagatc caaaaactaa taaaaagca 180

gttacaaagt ttgctacaaa tctgttagag ttcaaaatga atttggcggg aaatgatagc 240
 ttgattaaga tgagattctg cttcactcgg cgccggcacc gtcattgccg cctgtcgggtg 300
 tgctgcact 310

<210> 32724
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 32724

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 ttcacaactc actaaatctc tttttccatc tttaggactg gacttagaat ggaattatgg 180
 aaatgaatcc ttaacagagg cttcaacaat tttgagagat gctggcaaga gcaagaaaag 240
 tcttgcatgt cagttgtttt tcttttttgc acttccgatg tttactctat tcttgc 296

<210> 32725
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32725

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 tattatccaa aaaagggtgc taacatacaa tcttgacact taagctagaa attaagcaac 120
 atgatttggt tgtcatcgca taaaactcag taactcacca cggttttaa tctactgaga 180
 agcgatctac aacgagataa aatcaaataa agcttattat gaccgagagt atttatgtnc 240
 caagaaacca ttaaccactg aatttcactt aactaatact taattattga 290

<210> 32726
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32726

gggcggggccc gcccgactcg tctcgactgc atatagtact atngcgcgtt tgcagcttg 60

cacccggcgc atctctagag tctacctggt tgcattgcaag cttatcctct cgtagagcta 120
aatccagagg agaaatgcct aaagagaact ccagatcttg cttcccatga tggatcattg 180
atacattcaa gatctcaacg gaagccaaac aattgttaca caaaattcta ctgttaagtc 240
aaaacaagaa tgccttagaa catattacag gacaagatat agcccacaaa cataaccagc 300
tatcaatgcg aggccaatat aatagcacat tcncccttgg gcaaaatgca taaaccaacg 360
ctacaaccct agccaatacc tacgatggcc taatccatga gaatacccct agctcacaac 420
atcgctccctt tgggcagaca cactcctcaa ctgac 455

<210> 32727
<211> 245
<212> DNA
<213> Glycine max

<400> 32727

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caacggaagc tctcgagaaa ttccaatggt cattaccttt aactcggagg tctgatttac 120
gcgcataata tatcaagacg ctcgcaactg aacaacggaa gctctctaga aatccaaatg 180
gtcataacct ttactccga ggttccgatt ccgtgcatga tatatccaca cgctccaaat 240
tgaac 245

<210> 32728
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32728

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gnnnatatat tattgatata taattttgtg ttcttgnacg aancgatttg ggcgagattg 120
tggtgatatg aattgtgaat ttccaaatct gcacttatgc anaatttttg ctgggaaatt 180
gtgcagcaga atcttgcaca agtgcagaaa aatgcttgtg tgtggttggc tgtggaaaga 240
gcagtgcgaa tgagttcttg atgttcgcta gtagatccca acggtcaaaa tgtatgctta 300
tgtactacag acttccagta aaaatttggg gtcgatccaa cgggttaacga attggacca 360
agaattgtta ctgtggtctt tatgtgagaa aagctgcgat tctggttgat gtgttgacca 420

Figure 1 shows the results of the first two experiments. The first experiment was designed to determine the effect of the number of trials on the accuracy of the estimates. The results show that the accuracy of the estimates increases with the number of trials. The second experiment was designed to determine the effect of the number of trials on the bias of the estimates. The results show that the bias of the estimates decreases with the number of trials.

<400> 32729

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<400> 32730

cttccagttt cacctttgac aagatgtcat ggaccat 277

<400> 32731

gtttcttcgg gagcga 256

13639

<212> DNA
<213> Glycine max

<400> 32732

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catcatttga atgggagcct aaagtatgaa ggaagcatca atttaggggg agttttttat 120
tcaagtttaa atttctgccc tgaaacattt tattatgtac tcaaaacaca ttttctttat 180
atgaataaaa tgagatgttt tttgttattt gctcacgctc tatctcaaag tcttatgatg 240
cattattatt tggttatcat atatactctc tgcattctaat aagcctaact aatctcttat 300
tgtgaagtct tacaagcata ctttcaactt ttaaattctgt atgtgtctga catcatcaaa 360
aatgaagag 369

<210> 32733
<211> 144
<212> DNA
<213> Glycine max

<400> 32733

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tctacaagt ttctgcatt tttactcaca caaagtggct caaagactct tcaagacgta 120
tttaaaacaa aaaacttggtg tgta 144

<210> 32734
<211> 257
<212> DNA
<213> Glycine max

<400> 32734

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tcggttttta aggctccga ctgagtacaa aatgacttgt agcaatttgg taagtaatta 120
aaaactcctc tgcattgtcca attttaaaat cctatagata tctaatatga attccatgct 180
catttcaaga tgtgccgagt accatgtact cacatatgaa agctataaga ttcactatct 240
gaacttgcaa tggacta 257

<210> 32735
<211> 284

<212> DNA
<213> Glycine max

<400> 32735

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agacttgtga ccaaagggtta ctcaaatag gaaggcatac attatattga aacttttgat 120
cctgttgctc atctataggc aatatgcaat atactatcct ttgttgctca tcatggaatg 180
atgcgggtatc aaatagacgt aaaaagcact ttccttaatg gacttatcaa gaagtttatg 240
tggaacacac ccctgggtgt gagaggacta tctaccctca tcat 284

<210> 32736
<211> 188
<212> DNA
<213> Glycine max

<400> 32736

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caaaataaaa gcatacaacc atttttcaca aaaaagatat aagcgggttca ttgccatgtc 120
attcaaaaac aagttaaact atttcaaata ccttagaata aacaaaccca ctatttatta 180
attaaact 188

<210> 32737
<211> 216
<212> DNA
<213> Glycine max

<400> 32737

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tcccactaaa aagttattgc agcttgaatc tgctcaagag cttcgtattt catttccagc 120
gtctcgatat attaccggac tcaatccgac atcacagtaa aaagtcattg ttgttcgaat 180
tcgctcagag ctccggcatt ccatttccac catctc 216

<210> 32738
<211> 310
<212> DNA
<213> Glycine max

<400> 32738

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 gtgccactgt acacgaccaa tcttgcttag gacatggcaa tatggcccga agacgatccc 120
 aactcccaac ccccgaggac gaaacactct ccatatgtga ccacaacctc tacactattc 180
 ccaagcctct tcccctggat tactacaaac atccacaact atttctgact actctctccc 240
 acccaacaca cacaccattt tctgccacag caaaatccta ctgactattt gacaccaact 300
 ttttcttccc 310

<210> 32739
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 32739

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 ggggtgaaga tggctgacaa cgctacctct gcaacacatg gctacggaat ggagaccggg 180
 aaatggtcaa tagagacgcc actattgtga gaagaatagt gaagcacgac ttcagtgcc 240
 gatgaagaca tggatgctca ccagtatgc aagacacaat gattgcgcgc cagatgccga 300
 taaagatgtt cgccatactg aggtccgaac gctgaagtcc tttcttcaca caatgcagag 360
 gactcaaccg atgaatagga tcacgcctta gaggagacta ctgcactact gtcaccagaa 420
 actgatcagg tgatcttact gacctgtaag aagttccatt tgacc 465

<210> 32740
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32740

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 tggctgtgtt tctcattttg tcccccttaa ctctaacaca tggaaacttat ggcgacctct 120
 agcctctact tcatattcaa actgaaactg acgagaacct ttccatgaat ttggggagtg 180
 actcatctgt cgtctgctga atgattgtga gtgcaactat acgcaagtgg ggtgctttac 240

tcatcatgaa ctgggctcca aaatgcacaa taagtgtcct gaaagaatct attgagttcc 300
 ttggcacatc aatgtaccat tggagtgttg aagcccttat gttcatcacg aatacttggc 360
 acattatgac atcattattc gcgaatagat ttatttgcgt tagcgatgca tctatatgct 420
 tcttctggat ccgacagttc attgtatcca tctattggcc attgcttgc 470

<210> 32741
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32741

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 aaacagggca aaggcagaaa actctacca aaacaccaac caaatcacag cttttcacac 120
 acaaataccg cagaaacatt tcttcgctc cggtcatta acccggtggat cgacttcaaa 180
 attttactgg aagtctatag tgcataagcc tacattttga ccggtgggat ctactagcac 240
 acattcagaa ctctattctgc actactctct tcacagccaa acacacacaa ngcattttct 300
 gcacaaaagc aaaatcctac t 321

<210> 32742
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 32742

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 ccctagctct gcaacaagtc ctagggaagt agaccggag atggacaaga aaatccgcag 120
 tattgtgagt agcattctga aagatgcttc tgtgcctgat gctgagaaag atgttccaac 180
 atcttccacc ccaagtgtt cctgcctga tgcctgagaaa gatgttccaa catcctccgc 240
 tccaaatgct gaagcccttc cttcaccag tgaagaggaa tcaacagaag aagaggatca 300
 agcctcagag gagactcctg caccacgggc accagaaact gctccaggtg acctcattga 360
 cctgcaagaa gtcgaatctg a 381

<210> 32743
 <211> 344

<212> DNA
<213> Glycine max

<400> 32743

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aagttcaact tctctccctt tttcttcttt caatttcgtg ctccccctct ttttttctct 180
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agtggcgaag ctcttcttc catggcttat tccctagtag atggcgccct ctctcacctc 300
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<210> 32744
<211> 218
<212> DNA
<213> Glycine max

<400> 32744

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tccttaaaac tggatagaag agggctagaa tactgtatgt ctggacacag agtgaagga 180
tttaagtttt aatatgttgt aatcggaatg caattcat 218

<210> 32745
<211> 155
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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tcctagcaat tccagatcac ttcaaactag cgacgaaaat cgctccgtg aagaaaatcc 120
aagccaaacc gttccgtaa cgttcctgtg ggtga 155

<210> 32746
<211> 358
<212> DNA
<213> Glycine max

[illegible]

<210>	32747
<211>	283
<212>	DNA
<213>	Glycine max

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gcttgtgtgg tggctggcca gctgtgaact ttgagtgtta tatgggatat gggctttggg 180
aattgattac caacgggtggg taatcgatta ccacgcttaa aagtgaagac atgaagctaa 240
gatggcctct ggtaattgat aaccaaaggt gtaatcgatt acc 283

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aaacatggtc	ttttatcaat	ttgtgcattc	ctccaagtcc	ctttcgggcg	tctggggaaa	240
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caatgaactt	ttttcaaaa	aaagttgaaa	tcattttttt	caaagcatgt	cggtttttagc	360
tagaaactta	tt					372

<210> 32749
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 caatactccc atcctcgaat attaccccat tgcattgaac gttcgcagtt cctctccttc 240
 gttccatccc taactgcccc ctcataatgg agaataatta tttcctacac aaacacgtaa 300
 gggggattga tcaaaattat cagcgcacat gaccatagag aaaacggaag cacagactaa 360
 gaccaatcta ccattctga gggcttgaac acggtccaac tatctattga ccacaacca 420
 caaccttata caatatgcca tgcccttacg cgtgctacgg cc 462

<210> 32750
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32750

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 acggcgacaa caatgagagg ttatatactac atgggccctt atcatgtgaa tgccctatga 180
 aatatgcggc ggaaatggtg atcctcaatc aggtcaattg tgactaacat gccgcttaat 240
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<210> 32751
 <211> 309
 <212> DNA

<213> Glycine max
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 gccgatgcgc ttccctaacg tttcccggag tgactccgcc aacgtcttcc acccttcttc 180
 caccgccctc attcattcct caacggctca ccacctcaaa ccaacctttc ccactattct 240
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 atccccct 309

<210> 32752
 <211> 213
 <212> DNA
 <213> Glycine max

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 cccacacaca ttatatattt gtttgtaacg agaataaata ctgacaagga caaagtaaaa 180
 caattcgaat ttatcatata gccatggcta ttc 213

<210> 32753
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32753
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 tggaggaatc ttctggaggg cccaagtggg cctcgctgct atttacaccc cctgtttact 120
 aaatgcagcg cctttttcta ttcttttgta attctttttc cgtaacgcta cgaaacttta 180
 cgaatttcgt aacgatacct attttgcttc cgcaaagcta cgaatcccta ccgattatgc 240
 attctactct cttttacctc tcgaagaaga tacggaaact tcacgattgc ccannaacac 300
 ctcttttcga tttccgcac attacggaat ttcatgaatc ac 342

[illegible]

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tactc	aacag	aatc	ttctag	agtaa	aggag	tttat	caagt	cttct	gttga	ttttt	ggacg	180
atgg	atgata	gagat	atggg	ggaca	ataac	attgg	tcatt	tgg	tctacta	ttctt	atctt	240
ctat	attgat	ccg	ccaat	ct	tctatt	atct	agtg	gtgc	at	ccag	tc	288

<400> 32755

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ttgttgtgtc	ctcttccctc	aacgggaatt	tcttcttctg	gaaacgcgat	ataagtgttg	120
gtgggtatat	gattaacgat	gcctttcaaa	cccttcaactg	agatatcatg	tgctacatgg	180
gcacgcgttaa	ggacctttat	cacagcgcac	gatgaggctc	ggaagttatg	agcagttc	238

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<223>      unsure at all n locations
<400>      32756
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agctcacaaa	gagaaccatc	ttgatatgag	ggactctgga	agtcctctta	caacgctatg	60
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ataatgctct	ttgactgaga	gtacgcgatga	aacttttggga	ctagacagat	caccaagtct	180
aatcttatac	agatttcctt	gtctcttagc	ctagaaaagt	gaagaagtct	ccttgttctc	240
aatgatacac	atatcctngc	taaagggaca	ttgtatccac	tatcacataa	tttacttatg	300
ctaaccaaat	tatgcttcaa	ccctttaac				329

[illegible]

<400> 32758

<400> 32759

13649

<400> 32762
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 taaaatctgg catgaacatc tacattctta gtataacaaa tggatcatgcg agtaacacga 180
 aaaacattct ttctcaacca gaacgtcacg ctgctaattt gaggttggcc ttaatcctac 240
 atatgtccct agccaactaa atgatctata cccaacgatg gctcaatat 289

<210> 32763
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 32763
 tacgtagcag ttttcttata aaatagaaaa ttttgaacca taacatcata gttgcataaa 60
 tgcgcatcga ccaaatcatg ggataattga ttaaaataaa aagttttcaa aactaataac 120
 acatagcaac acattataat tgattaacac aagagagtaa tccgataaaa tagtgaaaac 180
 acgaaatggc aaggtaaaac atgtattttc aaaaagagat agaataatca actacagatc 240
 aacatatcaa catactatga cattaaataa aattaattga cataaagagc atacataata 300
 ggctacatgt actaagccta acatcattca atgctagatc catcta 346

<210> 32764
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32764
 catgcaagct tgctatctag ctcttccagg ttttagaggt gcttctctca gaagcgggag 60
 ccttctggag gaatcttctg gagggcccaa gtgggcctgg ttgccatttg caccgccatt 120
 ttactaagt accacccctt gccttntttt ggggattctt tcttcgtaca gttacgaaaa 180
 cttacgaatc tcgtaacgat accttgtttc ctttcataat gttaccgaac cctgcggatt 240
 acataaccat cctctttttt gacttacgaa tgt 273

<210> 32765

<211> 330
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32765

actggatgct ttggtcaact tgagaaccta nctggccttg aatcacaaat ctggagctgt 60
 ctttaaggggtt tgtgggggtgc gccctcccc tgaccancat atanaccttt ggccttccat 120
 gcagcaacct aaagcaattg agcagcctga agcttatgct tgaaatattt acaatagacc 180
 ttctcaacct cagcagcaaa atcaaccaca gaagagcaat tatgaccttt ccagcaacag 240
 atacaacccc tggatggagg aatcacccta accacagatg gtccagccct cagcaacaac 300
 aacaggagcc tgcttcttcc tttcaaaatg 330

<210> 32766
 <211> 88
 <212> DNA
 <213> Glycine max

 <400> 32766

acacaagagt ggggtgcctat tacgctgaac ctacctttt acgccaacaa tcagctatcg 60
 gctacgccat gataattccc ttacacct 88

<210> 32767
 <211> 178
 <212> DNA
 <213> Glycine max

 <400> 32767

agcttgcttg cggggccttg atggaggctg gatctttgag cttcaatgag gtccttcaat 60
 ggtgatttta caccatggag atgcagcgga agacaaacga aaagagggtga gaggaggcgc 120
 catccactac ggaataagcc atggaagaag gagcttcacg accaaaatga gccttgga 178

<210> 32768
 <211> 470
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32768

D E I T S C H L A N D

agcttataca ctatacatct aaaatgttca gggcccagaa aaggatgatga ggagatatat	60
atgtgacgtg atgatcaccg aagcgctagc aacatatatta taaaatattt ttttaatata	120
ttttttatta tcagctaaca tttataaaac agattataaaa tctattaata gaattcatta	180
aacacaaaat aacatcaatc aaatctgtat ttttcaatac aattcaacca cagttcacgg	240
tgtattttaat acagggggct ggcgtttatc taaccatgat accgtacc	288

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<223>      unsure at all n locations
<400>      32772
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ctctttaacc	ttggcctccc	ccgcatcccc	catgggggaa	aaataccatt	taaggaccct	180
attggagctt	aaaaatccaa	ccccattga	aaccccatca	gcaagggttc	attccatatc	240
ttctatcatc	ctaagattga	cccatgacaa	tgaatctatt	aaaagttact	accagctctg	300
agaaactaac	taacagtggc	caatacgatt	gatggggaaa	agaatgattg	gacttgcaat	360
gtggggaata	gaaatttgtg	ggtggctgta	caattgtcct	cttattatat	aaaagggcgt	420
cgttccaatc	acaccaaacc	ttttgtttat	ttttttttca	cgaatttacc	tc	472

<400> 32773

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 tcttcctgt aaatctatgg cattctcgta tgggtcacc cttctccgaa agattacaag 240
 ccatgcaaac atacctatcc tttcttaata ataacaagag tttcatttgt aatacttgcc 300
 attatgccaa acataagaaa ttaccttttc atctaacaca tctcatgcat ta 352

<210> 32774
 <211> 181
 <212> DNA
 <213> Glycine max

<400> 32774

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 aaaatgaaac tagatggtcc ttgcttctat ggctcagacc ctacaaggcg gattgttaaa 120
 aatccccaat tttttgctta ccaactcaagc ccaaaatccg agagactcac catagccttc 180
 t 181

<210> 32775
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 32775

cgacgaatga tattgattat ttctaacgtc cgaatctcct ctctactaat tcattgtctg 60
 aaaaagtagg ataatatatt tctaaaaatt ttctattatc aaaaatggta aatattcggc 120
 gattttattc ctaatgggta aaattaaaat tttcattctt tatacaacaa attataatta 180
 aataaatcaa atttattgca attatatagt ttaaaatcat ttttaacatc taaatacttt 240
 attaataata tta 253

<210> 32776
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32776

cgacgcgccc cgtgacncat tgacntgatc gaatttagca tatagccgta tgcgaactcg 60

[illegible]

acgcgcggcn	ctccctcggt	gacntgctcg	catgtacgac	tatcgccgta	ggcaatttgc	60
tcacgcccc	ctctagagnc	nacctgtttg	catgccaaatt	ttatggttat	taagctcacg	120
aacactgagc	acaactgaac	tcaattccct	ctcgaattca	tgccaaatga	acggatccag	180
gctccaccag	atctttctct	cactaccacc	aatacgctat	ggcatacgtc	tcaattggca	240
aggcatctgc	acactttgaa	tgacccccct	tcattctttc	acaaacgcag	taaaccttat	300
cctactcgcc	tacgttattg	tgtcaatctc	cctatgcaaa	tccgcaccca	gagcgatccc	360
cgctacaat	taacctatac	tatcctccat	gcacaatcga	attccgtcca	cacgaaatcc	420
taccatacac	ttcccaattc	ggctcactac	attcg			455

agttttgatg gttttgagaa gaaatcacat gtgtgtcatc atcaaaaagg cggagaatgt 60
gaatgcctgt atacatgact ttgatgatgt ccaaagaaca atcaacaac gctcattttg 120
cttcaagatt aatacaaaat tgtttgcaca aacaaagcct tgattcaaga cttcctcaag 180

atcaagcctt gcctcaccat gaaaggcttc aagcccttca ccgcacacgt aatcgactac 240
caacggtttg 250

<210> 32779
<211> 171
<212> DNA
<213> Glycine max

<400> 32779
cccatgcaa tttattaagc tataattaa catttaagaa gccattgaaa tgtgccttat 60
gttccaccat ggcggttga aatgcaacaa tagaaaagcc tttagaaaag tggatcgagg 120
aaciaaagaac aatatcgtag tttatattta acgcttaaaa cattattaca t 171

<210> 32780
<211> 210
<212> DNA
<213> Glycine max

<400> 32780
agcttgaagt acaagaaatg agtaciaaaga gagggagagg gggggggcac caaatctata 60
cctcaaataa ggtctgaact ttgaagttta atttctcaca tgatcaaagt tgaaaaatgc 120
acacacacgg cctttattta tagcctaagt gtcacacaaa attggagggg aatctgaatt 180
ttattcaaat ttacttgaat tgaattttga 210

<210> 32781
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32781

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aatgtcataa taacaaaaat aatccactta attagttaat ttattatcat gaaatgtatg 120
taattaataa atatttaatg ctttaaggttt aaaacaatta atatttcaaa acacctctta 180
atcacaaaat aaataaataa aaaagaacag aacaaaaaac gcacacttat ttaatcacat 240
tntataatca acattgcaca aactcatata cgcgttatct cttatttcat aggcacggtt 300
tttcattctc tttctcaaca cctttattcc atctgtttca agctttaact attatnattc 360

gatggagttc acatattgtg attgtcaaac ccaaaacatc atcacaacac caccce 416

<210> 32782
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32782

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cacattcttt ttcttagtcg atcactcact ntattctcca tattctcccc ctttgttttt 120
gagtttatgc ttacttgaaa ttaagttaat tacttatgtg agttcttgat ttgattccta 180
tttctctccc gctttggcat caacaaaaag ccaaagtgcg caacaaatat aaaacataca 240
tacattacta atcattcaca agacattcat tgaaaaaatc taaaccaatc atgaagcaag 300
aaacatgaat agatcacata tataaaaacc acatagtcac ataacataat tcataattgc 360
tcaatcatac tat 373

<210> 32783
<211> 419
<212> DNA
<213> Glycine max

<400> 32783

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ctggatttgg tccgaccatg cccttctgat ttccagctgg gaaattggcg aatggaagaa 120
cgccccggca ttacgcaac gagcataatg taaaccttta cggtttttaa agctctatag 180
ttgggcctag gcttttagagt ttccattttg ttaaggcttt gtgtcttttg tttttgaatt 240
tataatacaa ggatctttct tcactctgtc ctagtctcta cccattctca ttcatttgca 300
tgtttacttc tttttctaaa acggcagatt cgatgacgag tccccgaag gtactaatac 360
ctgggacccg tctatcaact tcgagcaaga aatgaaccac acggaagatg aaagagatg 419

<210> 32784
<211> 213
<212> DNA
<213> Glycine max

<400> 32784

agcttgtaga atggcttttc atgatccatg cgacgatttc acgggggttca aggataaaat 60
 ggacgacacc catcatctcc atgacacaca tgcacaaacg atgaccagga aaatgtatgc 120
 aaaactggcc atgcatgcac ctatgcggac actcaacgct gagaaaatta tggatcatgtg 180
 acgctcaggg tcacgagtcg cttcctctat ttt 213

<210> 32785

<211> 272

<212> DNA

<213> Glycine max

<400> 32785

agcttgatgt aagccatgta tgtgtttact ggtacagggtc tagctagcat ggctaacaatg 60
 aatggatgtc acgggttggtg tttaattact tactatgatt cgtgacgatt cttcacaacg 120
 tcttatatgt ggatggaaaa taatcaatga attgccatgg ctatttaaca cttaccaga 180
 taaggaacca acaaaagaac catacttata agcatgtaac tattatgacg tgttaaaaaat 240
 tgaagaacaa tccacactta aagatcacat ct 272

<210> 32786

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32786

tacgggacta attggaacca gcccaaaaag ttttttgcac cttacgaccc agcaagatac 60
 atttattggg actatattga tgcctggacc aatgtgtttt ggcatcaaaa caataaatc 120
 aagcattcgt ggttgatcta tttaaaaaat aacactgtat acaatnttcc aaactggttt 180
 ctccaatggg ggacttattg tggccaatc ccacaaatct ttccagaaga agtccaacaa 240
 ggatttcaac agttcaatag attgttaaca accacgaatc aagaattcca gccgatctaa 300
 tgtattttac tagctttgct ttgtcatgga tcttttcatg gcaatacagg tatgggaaaa 360
 ctg 363

<210> 32787

<211> 352

<212> DNA
<213> Glycine max

<400> 32787

agcttggctt agcacattac tatcaacaaa gaattgtcta agtgacctgg gctcaccgat 60
tcagcctcgc ttatccacag gtagttcagc aagaggatga gtattcatcc tcaaaggatg 120
aactcgctta gcgcggtacg cacgcttatac gagttcttca gagaacgcct ctatacaatg 180
agaactgatg aactcactta gtgcagcatg ctgcctacc gagttcattg tgtcttccac 240
acaacacaga aaacgcagct cgctctcttg cacttttcaa agctctaaaa ggcgtattac 300
acatgcactg tgtgcatcat actcaatata atataccaac gcaaatagtc ct 352

<210> 32788
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32788

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cgttgatagt tgcctttatc aggcaatacc aatacaatac taacatggct cctgacagaa 120
cccagctgca aaatataagc aagagagagc atgagtcctt taaggagtac gcccaatggc 180
ggagggactt ggcagcacia gtggcacccc ctatgggtgga aagagaaatg ataactatga 240
tagtggacac gttgccagtg ttctactatg aaaagtttgt gggttacatg gcctctagct 300
tcacagattt gatatttgc 319

<210> 32789
<211> 330
<212> DNA
<213> Glycine max

<400> 32789

gcacggttta tgaagaatgc gggagcttct tcggcgcagc aaaaggacgt tccccagta 60
taatactcat accatgaagt tcaccctatc gatgctccct ctatttctat atgctttcta 120
aaacttatta tccctgctta ccatattcct ctctctctct aaaatctatc atccctgctt 180
accattctgc tgctcctcct attcctataa gactcctcta agccctactc agaaagaaca 240

aaaacgacat tcactactaa agatgccaat ttctttttaca tggccatata cttcggcctt 120
 aaaaatgcc a gtcctacata ccaacgactg atggactgag tcttttagaca atagatcgga 180
 ccaaacatcc acgtatatgt ggacgacatg gtcgtcaagt ctaaaagcat agcccaaacac 240
 gtggcagacc tacaagaatt ctttggggaa ctctgcaa atgacatgtg c 291

<210> 32793
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 32793

agttttaagc aaactcggat gacaataacg ggggagtcgg atgtccgatt aacccaattt 60
 atactctgag acgctcacia tcgaatgcag gagctctcac caaattccaa tgacaataac 120
 ttttcaactcg gatgtccgat cggaccccg c aatataccta gaagcccaa atcgaaaaca 180
 gaagctctga gcaaat 196

<210> 32794
 <211> 214
 <212> DNA
 <213> Glycine max

<400> 32794

agcttttatgc ttatgatcgc gcgattcttc ggataaagga aagagagaca gcgaatgcat 60
 atttttcttg tagtctaacc ataaccaaca aaatgaagge tcatggtgga gtgaaacagt 120
 cattattgca aagattctga gatcaatggt ctcaaaactt gattatgtgg tatgctcaat 180
 tgaagaatcc aacaacttac acatgatgag tate 214

<210> 32795
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 32795

atcttttgctt gtagcttcaa tggagaatga agaagaagag aatggcaacg tgagggagag 60
 agagagagct gtctgaaaag tgtggggctg agtgaagaga gagagagagt tgctttttta 120
 ttttaaaaaa aagctttttc ctcatcttctt attattttat tataaaactat gccacatgtc 180

tccatttgag tggagcaaaa agggccact ttcccttttt gactgtgacc catactcagc 240
 cacaaaagtg aggaaaatct gacctttgaa acgctaaaat cttgcctcgg tttgcatgcc 300
 gtttctatgg ttccagttcc tcgcgtttct ctgcg 335

<210> 32796
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 32796

tcattgcgcatt atttccttac atacgtgctc ttgttcatta catttaaccg aaaaagtgca 60
 cgcgtgtttct attaattgcag cttcattacc tacatcattt acacgtactg ccaaggtgta 120
 tttgttactt acatcacacg catctccttg gctgaatttg catacatgca tactcaaagc 180
 attttgggggt accaaaaatt gcacatgtgc acatcttgggt atttctaata cctatatata 240
 cacaaaacttc atgatgaatc ttgactatct tcacaaaaag gtgctacact tcatcccttt 300
 tttcaagttt ttgctaccta aagccgcgcat caaatttaag catatttttc ttgcggacta 360
 aaattgtatt ccaattaaaa agtatatttt ttgtaatatg ttttcttcat gccacat 417

<210> 32797
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 32797

acccgcccgcac cccagagtta cccgcagcat gccatttttc cacgacgggt cccgaaagct 60
 gcgccatcta caaaccaaac acatttcac ccacacctaa ccaacactca accagctctt 120
 acagcagaaa gagtctctac gcgctcattt cgaacggcgg aacgaaatga aacggaacac 180
 actggagaga aacaaaacac aatacaa 207

<210> 32798
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32798

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gcgtattaga ggcttctttt caatggctac tagatgtaat taagtcttta cagaactgag 120
tgaatgaact gaccatatta gaaaattaca ggacacaaga aatacctcca ttattatcag 180
ttaatggtac aagagtcttc aagtgcacat gccgtgcata caataatcaa aatcaagaca 240
agcacaaaac atgcaaaaag tgcacaaaca tataccatga aaaaataaca atacaaaacc 300
caataaaagc ctgtcccgtg aataggtggt ctgcg 335

<210> 32799
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32799

agttttcacat agctgtcagc taaattagga gccatgaaga agtcaacata cccatctaac 60
attttcagat gccagccta naccatgag aagggagaag aaagaaaaag ggcattgttac 120
tgtattgaaa tccatggaga tattctacca gaagaagcat gtgtatcaac taattaatca 180
cctgtatccc attacttaga gcaccaccaa aaaggataag tattgaatca catacaccac 240
tggaatcacg gatgacaaca gcattgacct taactctctc acccaaaacc aaccaagggg 300
aaggaatggg ctggtaacgt gcattcactg aattctg 337

<210> 32800
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32800

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catatatgga catagaaata gagatgacaa cacaattttt agaggcaata atgaccaatt 120
ccaaggtaaa ggcagaggaa gggattttga aaagtctagg gtggagtgtc atagatgtca 180
ttgtagaagc aaagcttcat ggtgaatcaa aggtgattca aaggtgtttt gatgataaca 240
atgatgataa caaaagatga tgacaaaggt gatgacaaaa agtcaaaga tcaatcaaag 300
aacaactcaa gtgaatcaaa gatcaatcaa agaacaactc aagtgaatca agaacantnc 360
aagagtaaga gtcaa 375

<210> 32801
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 32801

agcttgtagc atattgaaac ctcaatatat cgagaagctc gacattgaaa gaagaaactc 60
 tgagcaaatt gaaacgacaa taacttttca tttggatgtc cgattgagta ccgcaatata 120
 tcgagctgct cgatattgga aacataagct ctgagcaaatt tcaaacgaca ataactcttt 180
 actcggatgt ttgattgagt cctgtaatat atcgaggcac tcgaaattga aaatcaagct 240
 cgaagccaat tcaaacaaca ataagttttt actcggatgc ttgattgagc tccttaatat 300
 tttgagacgc ttgaaa 316

<210> 32802
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32802

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 nacgatataa ctatttactc ggatgtctct ttttatcggg taatatatcg agacgcgtgg 120
 tattgataat agaagctctg aaccaattga aatgacaatt actttatata cgatgtcct 180
 ggttgagtc gttatatatc gagacgctcc atattgatac aaaacatttt ataaaattaa 240
 accacgataa ctttttactt tgatgcccgga gatagtggct taatttatcc agagatggct 300
 caaatgaga acggaagctc ggatcacatt caaacgacaa ttacttttta cttggatttc 360
 tgactgagtc cccgtatata tcgagatgct aaaattttaa ttccatagtt ctggaaaatt 420
 tggattgaca tgactttata cccggatggc ctgttgagtc cttgaatata tcgaaacacc 480
 c 481

<210> 32803
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 32803

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ccacaacata gaaaggccta aacacaagtc aaaacacata agactaacia ccaccgtgtt 120
atgggtcatct atcggatctc acacgcattc taagggtgtca tttttcacta tctcaacata 180
catattgtgg tcaactacca ctagaactct caaaactcag tgggtctcca acattctagt 240
ctggatgaat gctacgagta caccttcatg acaatataat ggcacgggtct tacctattgg 300
ctatgcctca cacttgtcga gatttccaag ttgacactat ggaaactcga ccacaaactt 360
ggtgccat 368

<210> 32804
<211> 381
<212> DNA
<213> Glycine max

<400> 32804

atttaaattc ctaagatcat gagcatctat ttgtgtctta ctatgaaaag tggtcagata 60
acaagcatag attcaaaagg tactaagttg cctcctaaga gcgcttcttt aacgtcttta 120
actggacgca tgatggcttg taagtcacgg acctaactact ttgcttacct ttggctttgg 180
acttggtcgc ctgctgggtcc gccatgtgtc gtatgcaata ctcaaaccctt tttgtggatg 240
agcagaggtg aactctaaag ggggtggcgg cgcgtctatt gcccgctacc gaccatcccc 300
aggctgctgt ggtgtttcgc cctgcgcctg cctggagacg caatactttt tgatgaaagc 360
atcattacta gggggcctga t 381

<210> 32805
<211> 209
<212> DNA
<213> Glycine max

<400> 32805

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ccacaacata caaacgccta aacaaaagac aacacacata aactaacia ccaccgtgtt 120
atggccatac atccgatctc atacgcatac caacgcgcca ttcttacta tctaaacata 180
catattgcgg ccaactaccc ctacaactc 209

<210> 32806
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 32806

agtgttaacc atgccgttct acaaatcaaa gaatacaact atgggggttg acgaaggacc 60
 tgcgacattg gattttgttc ttgaaccga agtcagtgtc aaacggagtg tactacaaaa 120
 tatctataaa tgtgactgta ataatgaaag caaacaagaa tttgttcatt ttctttgcgg 180
 agctcacttg gaagttctct ttgctgcgat agttatctta cgacctttac ttttattatt 240
 tcatacaaga ccaaaagtca aaatttccac actcatacaa ccaccg 286

<210> 32807
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32807

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 ggttacgatt attctaactc attagctcaa cctccaacta gcaacttggt cgtggcccg 120
 gattctaagc acggaccac tcttgnccct tggccacgtt gcagtccaat agaaatatca 180
 gatatagcta atttacattc gtatgaatat aagatataga ttaatatag ccattagata 240
 acgatcgaat gagtaattac ttcttgctaa agaatgccga atggggcatc atgttttaag 300
 ttactagcat tcttcttctt gggagaatcc atgtgaaacc aacaattata aaatacctat 360
 aatattactc tat 373

<210> 32808
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 32808

gactaatagc gcacacaatg cctgaacaca ctctaaatg cctttacagg accaagatcc 60
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agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactgatt 60
catttgcttc caaagtttca tggccttgca cgtgaagacc cgcacaaaca tttgaaagaa 120
tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
aaggcttttc ctcatcatt agagggagtg gcaaaggact ggctgtatta cettgctcca 240
aggccatca cgagctggga tgaccttaag agagtattct tagaacnaat ntccctgct 300
ttcaggacca caaccatcan gaggatatct cacgtattac acaactcagt 350

<210> 32812
<211> 326
<212> DNA
<213> Glycine max

<400> 32812

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aaacataatc accaaagaga cattcctaaa acgcaaacag aaggtacata tggcataaaa 120
cctcagaatc tgagctaaat gaatggcaat tatattatag atgaatcctc tgcaattgac 180
actgattcac tgaacaggaa acttaccttc atccctctta cactttccaa tgtccacaag 240
cccatgggtt ggccaatcc ctcccatagc cacaagttca gtgaagtggg gattgcatg 300
gccatcccct cccatagcga aacagg 326

<210> 32813
<211> 316
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32813

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ttgatgaatg aaagtcttat gagatacact tcaaagttcc acttctctcc ctcttttagt 120
cccttaattt cgctctcccc ccttctctct ttctttctct ccattaaagc atcctcttta 180
agcttcttat ccatggaaat tcttggtggg gaagcttctt cttnccttggc ttattcccta 240
gtggatgggt cctccctctt cctcttctcc ttttctctcg atgcatctca tgggtgtaaaa 300
ccccactgaa cacc 316

<210> 32814
 <211> 324
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32814

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 acacccctct aataactaag ctcacctcct taagaagctt cctttagaag attcctaaag 120
 aagtcagagc ttagttacac tcacctctct aatagctaag ctcacctcct tgagatgaga 180
 agctagagct tatctacaca ncccctataa tagctaagat ccccccatg ccaaaataca 240
 tgacaataca aaaaaagtcc ctactacaaa gactactcaa aatgccgtac aatacaaggc 300
 taaaacccta tattactaga ctga 324

<210> 32815
 <211> 364
 <212> DNA
 <213> Glycine max

 <400> 32815

 ctacatattt tctatagtgg tttgaaacct cagacaaaga tggttcttga tgccctcaact 60
 agaggtacta tgatgtctaa gagcctaaag gaagcaattg taatcattga ctccattgca 120
 gcccatgatt atcagagtca ccatggtagg actccaattc aaagaaaagg tataatgaac 180
 cttgatactc attatgcaat tttaagtaac ctttatcaac taaatagctt acaaaagtta 240
 agaataattt acctaagaat tgtcttcaat ccttcttatt ggactagact tagaccaaac 300
 atcattattg taacagcata tttaaaccac tatttatctg ttatccctca tttaaaataa 360
 gttc 364

<210> 32816
 <211> 302
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32816

 agcttatact tatggcctgc ctgaggactg gacccccctg gccaccccg aagatctaag 60
 ccaagccctt actttcgagg ggcaactccc accttatgaa gactatcccg ggcaagacga 120

tggggaatga gatacccatc ttggccccct gctncacctc aaagatccat ccccgcatga 180
 actaccccag ccgaacatag tccactatat cccggcctca cccacacccg taaaagaatc 240
 tgtctccttc gcggaagata acggaaagat tgacgcgctt gaagagaggt taagagcagt 300
 cg 302

<210> 32817
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32817

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 gcctaccagg gaaggagagt ctgctgatgg aatctcccat aaccataaat gagattttgg 120
 atgttagcat ttcgtttcta aatgaccatt tagaggaaac actgggttcg acaaaaatag 180
 aagaaatcca ctcaaagtgt atcaatctcg cacaggtaag tgtttcatcc taattccgaa 240
 ccatagatat gtcatgactt gactttgcaa attatttctt atcaaatcaa aaattacatg 300
 cgtgatcatg gatcaatagg gcttcccttg ggaatgggtt cttttggtgg tctcttcttt 360
 cggtttttgc gtgtatttgg cttttgatcc tcttggtttt ttctttttct gttct 415

<210> 32818
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 32818

gtactgcagc ttgcaagttt ctctcgagct cgtcgatgac acaagcagca agctgccaaag 60
 cttctcttga gctcattgcg atcgtgggtg ggaacttgagg cttccaacaa aaccagtcta 120
 ccaccgcacc gcgctgccat gtcgcatgtg ttctgggtctc gcgtcgtctg gtctcgcatc 180
 gtctgaacag ctccaacctc ccgtgaatga agaacaggga caaacaccaa atgaaagaac 240
 caaaatccct aaagcacagc ggaccagtgg gcacacaatg atgtcgtata gtggaaaaaa 300
 atatctcaac tgaactcgcg tgattccccg t 331

<210> 32819

0 **1** **2** **3** **4** **5** **6** **7** **8** **9**

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tgcattcaaaa	aggcattcca	gactatcata	catttcattta	ggaagacaat	cattcacaca	120
ttgctaagaa	tttcatgctc	cttatattta	cctatgtata	cacattattg	ccagggtggtt	180
tccacgctac	cgttatgtaa	acatcaaaca	ttggggcaaa	cctaaatcca	gcaaaaactc	240
ttacaagcaa	atcctaattt	catgtatttc	taattctaaa	accaaatttg	gat	293

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<223>      unsure at all n locations
<400>      32820
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atcttgggta	cactangaac	acacacccta	tcctgaaacc	tcaagactcc	atcagttccc	60
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tcagacttct	gacctcacg	gatcttgctc	aagagttcgc	tggtgactct	caacataccc	180
aacttaatgc	tactacaggt	gatctcacat	gccaaactca	tgtctctaaa	ctgctctaag	240
aagcccaact	ctctaacatc	aaaccagaca	tttgaaggat	ttcctactta	cgcataccta	300
ctac						304

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<223>      unsure at all n locations
<400>      32821
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catactat	tttccaaatgtag	acggcgctagt	ggacttagca	gtgatcgaag	cctttcttgc	120
ttatcatcac	agcaatgaaa	gcccgatcat	cactatntta	gccgatgcat	atgatacgtt	180
cgacctgaga	tgcgaaaaga	gcagtgcaag	aattgtctgt	tgtatgcctg	ctcttttatgt	240

gtggttggtc tcccatgttt ttcgtcatga aggtaggcct gtctatcctc tataaagtca 300
tcacatgtgc cctgaaaggg aaaagcaa t 331

<210> 32822
<211> 233
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32822

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actgaaattc cttaaagctag caatgtacgg ggcaaaaact tataatttta aggattaaat 120
tctggatatt taaaaaataa acaatacgaa aacctgacga gtagctactg aaattttccc 180
tttaaaaggt ccacagatga aaacttcnaa ttcacgacta acacaaacat gac 233

<210> 32823
<211> 355
<212> DNA
<213> Glycine max

<400> 32823

agctttttgt ggggaattta tccgatctag gtgataacaa ggctgggtgac tcgctaacag 60
ccaaggcaaa ttactaaagc caactttaat tcttttcaact ttcattctat caccaaataca 120
agagccatta cagaagatgt gcactatctt gatagaatth tctataactt ggaattcagc 180
ttctcttaaa taaattaaaa ttaaagatct tttgaattca tgaattgcta ttttcattat 240
tggtgcata tggtatgtat aataatactt tggattgggtc agatttgcat ttaatgctag 300
ttgctcaatg gtgcgatatt atctataata tagaattggt ctgtaaagaa ccatg 355

<210> 32824
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32824

agcttgcttc aaagaggtcc aggaatgaca aggcagccga aggaactagt tccgctccgg 60
agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120

gatggtcgtt tctccgggag cgacgcgtcc agctcacgga cgaccagtat actgatttcc 180
 aggaggaaat acggcgccgg cgggtgggcat cactgggttac tnccatggcc aagtttgatc 240
 cacaaatagt ccttgagttt tatgccaatg cttggccaac ggaggaaggc gtgcgtgaca 300
 tgagatcctg ngtaaggcgt cactggatcc cgtttgatgc cgaccta 347

<210> 32825
 <211> 158
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32825

tcttcaagaa taaatagttc ttcacattct accataatat catgtntact cactttgagt 60
 tcatcataat ctttngngtc ttgtgcgcat tctctccaaa gatcacatct tttttctttt 120
 ttgatgaata tgtacgtcat taagttcctt aatatcct 158

<210> 32826
 <211> 356
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32826

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 gactaatagc attaattggt tcaatgctaa tacgatattt ttattttata tagaaatata 120
 gtattgtatt agcatgagaa aacataaata aaattaagac aaagattaaa acaacttaaa 180
 aaagaaaaaa tacagataat ttaatttaat aaattatgtg agctaataat taatgttttt 240
 ttgtattgaa taattagttt atatataata ataaatttaa ttatatgata taagttggat 300
 cgggttgggt taaaaaata taacttggtg tccaaccgt atatgattan gtctta 356

<210> 32827
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 32827

ttggagggtt tggatgaata cctcaatgat gcattgaacc ttgaatcgag ttttgaagac 60

ccccctaatt ttattttatt gatattttat tatttaataga tttgtagctg tcatgcgtgt 120
 tggtcgttgt tgtattactg agtggttttc atgtgtgttt taatggaaaa agtgtgaagt 180
 atgaattgaa attgtataag tgtcaaaaag ttgccctcat agattgaaat cttgaagtat 240
 tactgagtgt ttttgccact tcgataattc attttagggg tgaatcgaga cccaaaattt 300
 gtcttaatag tttcattgac atgaaaaata caggaataaa aaattatttt aacaaaaata 360
 acttatacac ataacaatct aagtgccaaa aattaccctt atgaattgaa atc 413

<210> 32828
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32828

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 ttgtctcttg ccttggtatg aaccagctc actatgccct tattttcccc aaattctggt 120
 tcagttggcc ttttccagct tactagttcc atcaacacca ctccaaagct gtacacatca 180
 ctctttctcat tcactttgta cgtgtagcca tattctacac caattcaaac aaaatccata 240
 cattaataag catgattaaa gatcgcaaat taacatacac aatacactac aactcatctc 300
 ttatcaaaag acaggagcta ctactcaatg ctaaccagga gcaat 345

<210> 32829
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 32829

gateggccaa taactggcta gttaagtatg tgaaaaaatt ctttgcagtc caaagactaa 60
 tgccccgggt taaagttatt tacaccagaa ccataaggaa aagtttaatt caacaaagaa 120
 agaatataaa attacgggga caaaattcgc attgatgggg aaatggaggt acccaattga 180
 ccaaattgttg aaggcaaaga gagaaaatgg aagaggactt actatcagct gcagaaatct 240
 tgagctgctc aagagcgggg gcattatttg gagcacccga tgatgca 287

<210> 32830
 <211> 287

<212> DNA
<213> Glycine max

<400> 32830

agcttgaagg caaactggat gcattggtca acttggtaac ccactctggcc ttgaatcaaa 60
aatttgtacc tgtcgcaagg gtttgtggtt tgtgctcttc tgctgaccac catacagacc 120
tttgcccttc catgcagcaa cctgcagcaa ttgagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctcctcaa cctcagcaac aaaatcaacc acagcagagc aattatgacc 240
tttccagcaa cagatacaac cctggatgga cgaatcacc taacctc 287

<210> 32831
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32831

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gaaagattca tgttcccttt tacacatggt ctgtagctac attctatttg gagccatata 120
aaaattgtac tgatactgcc taataaagga aaccattang tctttttagg aacggaccgc 180
ggaagacttc agatngctgc accagggtgat ggggtgccta ctaaactttc ctagaagaaa 240
tgcatacaaa tttctcattt ttgcgcatgc cccattttct acagtacatc tcaagtgaat 300
tttgggcaa 309

<210> 32832
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32832

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ccactcctca cgtttggttt tttagggaaa aacaccataa ctaaagcggc cgcaagggtat 120
ccctatcgca ccagatccaa atctagaacg atgggtgatc aagaggagac gcaggaacag 180
atgaaagccg acatgtcggc tctgaaagaa caaatggcct ccatgatgga ggccatgtta 240
agtatgaagc agctcataga gaagaacgcg gccaccgcg ccgctgtcag ttcggctgac 300

349

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<223>      unsure at all n locations
<400>      32833
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<223>      unsure at all n locations
<400>      32834
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<400> 32835

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tatgtttctt ttattttcta ccaagtacat aacaattgac ttgtagcgat cctcaaggct 120
tatcaaakat cattgattgt gggtcctatc ttgttcttcc tttcacattt ttttgtttcc 180
ttgtttaatt cccgcaatgc taattttgta attctgtccg aatttcttat tttcatatct 240
ctcattatac ttaacctttt tcggtgtttt tttgtgccta cattgcgttt cataacgtcc 300
tctttcacct cgttttggaa tcattccatt ctgtgtactg tacgctaaaa aacaaataaa 360
agttaaaatg catttatggc tcaattgggtg tgcgaattcc attct 405

<210> 32836
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32836

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ttttccacat ccacaaatcg cgcataaaca caccatcccc tgttgcccac ctccaactga 120
gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt ccccatcaat 180
cctcccaagc ttccccaaca tgcaagtaat tcaacattca acagcacaaa ctatcacagc 240
caagataaca cggcaaaggc agaaaactct gccataacac caaccacaat cacagttttt 300
ctcacttaca gaccnacta acaattcctt c 331

<210> 32837
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32837

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ggcttggtta aaatacccta cttagtgta tttcncctt cgaaccgtgt ggaagtgtga 120
ttggtttgcc aaccgcctga ctctttcttg aagggtgatc ctaaaacaac tacctactcg 180
tgtaactcta agaaggaagg ggattatcgt ggacgatggt ggggtgtgttc ttttcggtga 240
tgatcacgac gaatcacaac actcgttgat ggggtgcacc ttctcatacc tggatctggc 300
gcatcaccta tcaattgggtg gtgtatatatt gggcaagcta gaatagtccc acatttcaat 360

acatgcaacg cgggtgtagtt tgtcagcggg aacaggacgc ataaaactga ccatcccatc 420
tcgtcctggt tcgatcgact cttttgttaa acacgaactg tctacttttg cc 472

<210> 32838
<211> 318
<212> DNA
<213> Glycine max

<400> 32838

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aagacaaaag catgattgat cagagaaaaca tctctatata catcagcctg gttgttacac 120
agacctaaca tctttaccta ctactgtcag tcttacgggt tttagcctag acttagctta 180
actctgctct aaatcatcaa ttatcaatgt ttctttcaac aatgccttat ctctgaattt 240
aaccttatct aagactactt ccttgagttc gatactcgga ttcatecgct ttaattttaa 300
atacttgacg atccgatg 318

<210> 32839
<211> 395
<212> DNA
<213> Glycine max

<400> 32839

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ctgttatatc catccacttg tccacactaa cctaaatcac aaaaacatac atgtgtcagt 120
catgtaaaca ttatttataa aaaaaggcat aaacaacata ccttggataa cccatccaca 180
tgttagggaca acctcaactg ttcaaacttc tccgtgccac caaagagctt tatgtagtct 240
tgtgaccatt tgccatgttc tttaatcaat tcattgcgca tcagtgccca agattcttct 300
cccatatcga acaaagcagc aagtgactga tatccacagt taccatctgc tttcacatca 360
ataatgtcct caatgaaacc ctgtataaat ggtgc 395

<210> 32840
<211> 194
<212> DNA
<213> Glycine max

<400> 32840

gaatctttcc tgtataatat agagcttggt ataccctaatt ttcgtctggc gaccgttgat 60
 tgggtggaatg caaccttcgc ttcaccgctt ctaggtactt aacacccgcc gttaggcaat 120
 ctgtgaagtt ccacgacatg tctgaagtcg aaaggaagca ttgttgaca atccgtatag 180
 ttctgcaaca ttcc 194

<210> 32841
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32841

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 acggcactac tttctagtcc aaaaagtaag ctagccgcgc cacaacatag atgcgacaat 120
 atcccaagct ccccgaaaag aggttaggac ggtgatcgct cttaccccag aggcaccatg 180
 tggatggacg gttgctctac ccttgacggg agtccagaac tttcccgaat ggtagccaag 240
 ggccaaagcg atgacagaca cctactcccc cccgaaaaat atacgggctt ctcgctattg 300
 taacgtatga tagactaagg cccacgtaat agaaatcgta gaaacttggt gacgctcaaa 360
 cctgacaata tacttctttt gaataaatga gttgtccatg ttctactcaa acctggcaat 420
 caatct 426

<210> 32842
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32842

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 caaaggctgt tagattcaag gaggtacctt tgggatacca cacacctaca tcgggtgtac 120
 ccatcaagta tttaatgggc cttgaaacct gccaaatcag aggccttgaaa gcctgttata 180
 tttaaagagg tacctttggg ataccacaaa cctacattgg ctgtaccctt aaggtattta 240
 atggtccttc taactgcttg ttaatgagat tccttacgat tcgactgata tcttacacat 300
 aagagaacac ctagcatgat atccgatcta cttgtagtac gtagagagtg atccaatcta 360

cctatatatt tgn

373

<210> 32843
<211> 126
<212> DNA
<213> Glycine max

<400> 32843

acaaacatta tgacctcctg caaaatcacc ctgatggaga tcaccttaatt aatggctacc 60

ctcacacaca acgcgctgtc ttcttcaa at gtctggccat aacatcatcc tcacaatcac 120

acacac 126

<210> 32844
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32844

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acatagcatt ttgaccaaaa ttacattgc atattttgca ttttaagcctt agtcttaact 120

tgttttcatt gttttccct tcttttagaa cttgttatgc gtgtcttttg ttgttagcat 180

aagttttggg cttggaaaca ctcaagtc at tggaagacat caaggaatgt agccaagagt 240

ttttaaggtc caatgggtga attgaaaaca atttgggaga gtctggaaca tctcatggcc 300

tatgagatcc actgtttnta aacttgtaa tctttagag catctcaagg tcgtgagttg 360

catctcacac atgtgaagtc gacagcataa ca 392

<210> 32845
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32845

agagcgtatc ttanacncnc tttatataac tagaggacat ttgcccttaa tctattgcag 60

gggttgcttt ttgtggactg gcggggactt gccgagcgt ctaaggttct cttcccctct 120

gcgtataatt aagagtcacg ctttttgatt gtttactgcc tccatataat tcttcgtaag 180

tataatctag tcataaaaata tttcaaaaat actgggatat atttaacatc aggcattgtg 240
gacttattca ggtaacgtct ttgagaaaaa ctatgggtgtt ttattgaaag attttcaagg 300
aagatggaat ctacatgcta acgcttattg atttgggtga gatccaatac atccacgtac 360
taattgcctc gttgatactt aaatcg 386

<210> 32846
<211> 239
<212> DNA
<213> Glycine max

<400> 32846

ttccatcatt acatagcatt gtgaccaaga tttacattgc atatattgca tttaggcctt 60
aatattaact tgtcttcatt gtgttcccct tctattagaa ctcgttatgc gtgtgttttg 120
tggttaacat acgttttggg cttggaaaca ctctagccat aggaagacat ctaggaatgt 180
atccaagagt ttttaaggacc aatgggtgaa tggaaacaat tgggagagac tgaacatct 239

<210> 32847
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32847

aaaagagagc aaaaagacaa caacaaaaca acagagaaaa cccgggggan naaaggggag 60
actgaccna anaaanaccg aaaaaggaac aaaccaaaagg atgttaaaaa aggccccacc 120
ggggggagac aaacgaaacc caggaaaaaa ggggaaaaca aaaggggaaa aagaaaggcc 180
gacaacacac gaaaaaagaa aaaggggaaa cgggagaaac tcaaaaacta aaaaaagcga 240
aagagacaca gcaccaacaa agcacaaga cagctgacgg aagagaacca ggcgaaacga 300
aaggcaaaag ggaacgccag accagaaaac gaagtaaaaa gaaagcaaca cgaaa 355

<210> 32848
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32848

tcactaaagc ggtgatccat ctccacacat attttatcaa tagcaacata naaaatctct 60
gcacggtaat gatgaagaat agtgatagtc ctcccttctg ctcttgaacg accccgaact 120
ggtatttcgt catccatatt tggtagcaga atactnttag caacacaaaa tccttggaca 180
tcggcaaaaa aattattcca gccactctct ctcatgtg ccaaccgagc ttgacaaca 240
tcaactaatt ccatggcatt cacaatatta agatcttntc ttgcaatat atttgaaagc 300
tc 302

<210> 32849
<211> 124
<212> DNA
<213> Glycine max

<400> 32849

tgaatatata tatatatgaa agctttttgt gaaatcctta agcttttaaaa gaagtaacca 60
tgatagatgg actctgttat cagttatgtg tataagggga cccaaacaga acacttgta 120
cgat 124

<210> 32850
<211> 178
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32850

taagtattaa atggcagcgt caaggagatc aaaatacaac ttattttcac aaattagcac 60
atattatgca tgcagctaag aagatgtcag ttcttcaaag tggggatggt atgatggaat 120
cccaagaagc tctggatgtg cttggctgtt tctcgtatat ntatgggaga caataact 178

<210> 32851
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32851

ttttcttcat ggaaacaatt tttccaagca aattcgatag agagagaagt tctaagggg 60
ttgaaccctt tntcacttca cttctcccc tatttataga caaaaggcgc agaagacgac 120

gttagtctct acgtgctatc atgctntgag tcttagagat agcanaagaa agttttaaag 180
 tgccgggacca aatgggtccc gcatgtcatc gggcccgccg cctctggatg acanaaggcg 240
 cagaagagga cgtagtctc tgcattgat catgctttga gtctt 285

<210> 32852
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32852

tttcttgta gaggtaaaac ttcaaacct tgccattntt tctttcatct tcttattcct 60
 ttaacaaggt tcattatgag tcttgattta ggcattgtca cgttggtttt ttgttacttg 120
 gtgatatatg atttctatca atacttcttt gcatgtcatt ataactatca tatntagata 180
 gctntttcat tacagaggca atgtagtttt ggaacatcaa ttttaatggg tctcttgggt 240
 gttgtcctat gttgtgtcan cgtttaacgt tagattaana attaagccca attatata 298

<210> 32853
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32853

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 ttctccagat ttacctgggt caactntatc agagagaaat cagacaccct ttgagtattc 120
 aaagagttga gtctaagact tcaaagagaa naagactgtg tcatcaagag aattaggagt 180
 gaccatggca gagagtttga aaacagcaag tntactgaat tctgcacatc tgaaggcatc 240
 actcatgang tctctgcacc atcacaccac aac 273

<210> 32854
 <211> 277
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32854

atgaagaaaa agtggagaag aacgtttetta tacctgctcg actatctcaa gaagaagctg 60
 aggaagaaga tccaggtgaa ccaccttcac ctctaccata acaacaagat caagaactag 120
 catcaccaga gtttactcca agacgagtaa gatctttggg ggacatgtat ganacctgta 180
 acttgggtcat acttgaacct ggaagctctg aagaagcgtc aaagcaggaa gtatgggtca 240
 agggcaatgg agaagagata canatgatcg agaaaaa 277

<210> 32855
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32855

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 gaagataatg agagagagan agtggcatga aaaattgaag gaagaaaggg agagagggtg 120
 aactttgaag tgtgtctcac aagactctca ttcacatcanag ttgtgacaag tggtacacat 180
 gcttctatct atagcctang tcaactaacta aatgaaattc acttgtcttt cattntatgt 240
 gaaactaaga agaattattcc aaggatatgt canaggcatc ttagcatatt ccaagaatat 300
 gccaaaggca tcttaatatata ttctcttttag atgtcacaag aataaaaggt gtgactctag 360
 cacatggaaa aggaatatgt cacaagaata ttctaaag 398

<210> 32856
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 32856

aagtggagaa gaacgttctt atacctgctc gactatctca agaagaagct gaggaagaag 60
 atccaggtga accaccttca cctctaccat aacaacaaga tcaagaacta gcatcaccag 120
 agtttactcc aagacgagta agatctttgg tggacatgta tgaaacctgt aacttgggtca 180
 tacttgaacc tg 192

<210> 32857
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 32857
 ctctgtattgc atcaccattg gtggagggtct accaaaaact gcttgaaatg gtgtcatacc 60
 caagcttttg tggaaggaag tattatacca aaattgagcc caaggtagca tagtaaccca 120
 actcatagga tgatcaaata caaagcacct tagatacatc tcaagggtct tattaagatt 180
 ctcagtcagg ccattggatt gaggggtgata tgaagagctc atggccaatg ttgtgccttg 240
 agctttgaat aattg 255

<210> 32858
 <211> 267
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32858

cgcccgaccg ccacctagta ccacatgtga tgggtacccc ataatcctac aagcttgaga 60
 tgaggaagtg ttgaagggtg aaacttcctg ctnttattgt tgaccacaga gtggtacctg 120
 gagatatgtc gcgggggtca ggagaccttg nggacgtcag gtgggggtgct attgccccaa 180
 accaagcttg accaatcccc acccaacccg ggcatagtcg gtcagtgaga acctgtgatg 240
 tacctaaaca ggcgagctcc tggcagt 267

<210> 32859
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 32859
 tactcagctt gtaaagaact taggaaaatc aagaacaaac ttgttcgctc atcgttcgcg 60
 tgtttgatat ccactcgaca aggtttgaag taaaggaaac cttcaatcct ataacgcaac 120
 gtggcggaca aaagtgggca gttaacttga atgaccttta ttgtcaatgc ggaagggtatt 180
 ctgcgcttca ctatccatgt tcacacatta ttgcaacttg tggttacgtg agcatgaact 240
 actaccaata tatagatggt gtttacacga atgagcacat cttataagca tactccgcac 300
 agtgggtggc tcttggaat gaagcggcaa ttcctccttc tgatgaagca tggacactaa 360
 tcccctgacc caactacaat tcgt 384

<210> 32860
 <211> 268
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32860

tatccttatg gcttgccctc ggacttcaact ccccggtgctt tcccgggaaga attaagccaa 60
 gcccctactt tcgagggggca gctcccaact tatgacgact atctcgggca agacgatgag 120
 gaaggagata cccatctcag tcccctgctc cacctcanag attcgtcccc ccatgaacta 180
 ccccaaccaa acatagtccg ccatattccg gcttcaccca caccgtaaa agaattctgtt 240
 cccttcgtgg aagataaggg aaagattg 268

<210> 32861
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32861

acactcacia gcnnaagggg tggctgtgtc acacgtatat taactggaga tgtggggccc 60
 cggtttagaga aacaagtttt tggtttacct tggaatcctt aacctaagtg gaggtggcca 120
 caggggatgg tgggtttatg cgcgcttgt ggatgaagaa agcctggtgt gcaccattcg 180
 ccgaacggca cctaataaca catgtgatgg gtacccatt attcttacag cctgaaatga 240
 agaagtgggtg gaggggtgaa cctccttctt ttattggtga ccacagaatg gtaccttgag 300
 atatgtcgcg ggggtcagga gacccttggg acgtcatgtg ggggtgctatt tgccaaacca 360
 acttgaccat cccgaccac ccggcattag tcgtcatgaa acctgtgatg tacctagcgg 420
 cgagctctgc ngtcacagat naaggataca gaccaagca agatgctgg 469

<210> 32862
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32862

tttgcacaa accaccgtga gtggagttcc ttctctcttc actcttctct tcacacccat 60

acgttaaatt gacttgggttc attgtgggct gtagctgtct ctcgacttga ttcaagattg 120
gattcaccac acggaagcac tgctgtgttc gggacaccac tcagcatttc taagattggt 180
ccttaccaac ctctccatgg atagatggag ctcanagtgg taattcctat catttccctt 240
ctctgtgctc tggtttttca tataataaag tgattcttgc ttgatgaatt ctctaate 298

<210> 32863
<211> 340
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32863

agttaaaggc tttangcncn nnttnatcnn naacaaccgg ngnggccagt cataatcttg 60
tattctacca ctttatatgg aggttcacat tatgctaattg ctttcattca tgagtaattt 120
ttagctcatg ctagaaactc ggcgtagtaa ctaccctacg gatatcatca taagggataa 180
tatcttcttc tgagaactac taaagtcaca tatatatcca tttaaaacta tgctttgacc 240
tttcttgtgt agctgggtcc tatcacccca caaattaacc gaatcaatag aaattatcta 300
tattttctct ttcaaattggc ctactatccc agaacaatgt 340

<210> 32864
<211> 330
<212> DNA
<213> Glycine max

<400> 32864

ctgcaagtct cacagctcta tataaactac agtgtaactg aaaacagttg ggaataatat 60
cagaattcat aaatctcaca aattctctct ctctctctct ctctctctct cgctatcttt 120
ctctttttga ttatccttgt ctaatttggg atccagagcc aaaaagatcc ttcatgggca 180
gaatctctc ctctctcttc tgctactcct ttctcttcat cgtcagcgtt ctgcacttg 240
atttctgaga agctcgactg attgaacttc ttgctgtgaa agcaacaagt agaaccagt 300
atcaaagcgc atcaactaca ccgttacttg 330

<210> 32865
<211> 329
<212> DNA

cacacacctt ttcacacatg tttactgatt aaaattataa aatcgттаат aaatctctta 240
aactacctgg caattataaa gaaatgggtcc aaaaaaata ttaaaaagtt tgttcctata 300
aatacagaat aatctttgat tattgacaaa tgaggataga aatcctgagt tgaatttctt 360
ttttccaaat ttaaaacaag caagttgttg acctcaatgc tttaatgggc taaggggtgt 420
gggaaggaat taaaagatct tatgccaata caagaggggtt gatttttcaa acatc 475

<210> 32868
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32868

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ggacctgaag gattgcagcc tatactanat ctttcttaan ccacacacac actgagcaag 120
tagtcatatt cagtccatac ttccaatcga tcatgctcag tatgatgcat gcacctaac 180
tcaactctca tatgcaatgt gttaccatcc ccaaaggata tagccctaag cgtgtccata 240
tgacactctc acttangaaa actangcaag tagtggtgag gtcacccggg cgtgtacagg 300
taacttcccc cccccacag tgatcagcct gaatctcaag ggagttccaa accgagtgac 360
atgcccccaa gtacaagtat tccttctcat gagaaactgc aagtacttac tggacaagtt 420
tatactatctt ccatgtcata tgaagtatga tacatgtggc accatcaatg cactgaccag 480
gataattaaa tattctaag 499

<210> 32869
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32869

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gtcaagggca acattttccg ttccaggggc aaaccccctc cctgtgcacc tctttgactc 120
agtctccact accatatctc ttctctacat ggtcccataa tctttagctt cacactcagc 180
aacatattaa cacacagctt acagcagcaa cagaaagcga actttgtaca acaccaaacc 240

agtttcacta gaccatacat tctcatcatt gtaacgtgac actcaattac ggagtgatca 300
tacccttgga cgggactaca aacgcaaata ttgctc 336

<210> 32870
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32870

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gannnggata atagaaatgg tttttttttt tttngngaata accttgatat gggagggggn 120
agtgggtaga ataaaatgag gatgggttagg atataatgna angnatttgt gggatgaatg 180
aaattttgga tgtgaanatt taaangatcg gaatatataa ttaaattgtga tgggtattna 240
tatttgtaga agatttagat aaggaaaggt tgaagggtga agagtntctgn tatgattgat 300
gaggagaaag aggtggatgg agatgtgaat agaggagtgn gagaaataga agangtgatg 360
tgtgggtgata ttgaaaaaaa ataatttgta taataaagaa gggattgggt attattggaa 420
ttagtaaaat gtgtgtatgt aataagtgat tgtatggaat ggaagattaa tgtatatata 480
gtangaagat ggaagttgtg 500

<210> 32871
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32871

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aaatgcctat ggcgcgctga gcgagagtct ccaaattctt acttctcttc aagctttatt 120
ctgagtttct gcaataaata taactccaaa acattataaa ttcattcaatt aaaacaccta 180
ctagacaaaa acttatatga tgccaaaatc ctacttatct acacaaaaag aagcaataaa 240
aagagggaaa atctgacaat ctatattgac tcaattacag gtatacttat gcacaacagt 300
tatcaaacac ccccaaattt aaagcttcgt tttccct 337

<210> 32872
 <211> 158
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32872

tttacaacct cagttccctt cccttatcaa tcgatttcct caaagcagta agatatagat 60
 cgtttcaccc tatttatcca aaataccana aatggataag aaaggatcat atgttgagtg 120
 acaggggtgag caagggaggg actaaaatgg gagcccca 158

<210> 32873
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32873

gcccnnnggg gttctagcat ganctgaatt tgaaccagcc cagataacnt ttcttggtgcc 60
 tactttttat cnnncctt ncaacttggt cttttctgc acaaatttat agcttttcac 120
 tggatgatgat catgaaaggc ttaacnctc tatcaatccc aataatccac ttccaagcaa 180
 ggttgaaatc tgagtattgg gttaataatt tccatttttc attaattatg aatatgctta 240
 agactgaaaa aanaaatagg gttaggattc ctttctaata ttaaaactta atcacaaatt 300
 gtttgaatga tattcaaacc taaattgtaa tctcaatgaa tntaaggatt aatctgattg 360
 aactaactct aatgacattg attgaactct tacatcttga tcattctctn tagaatngtg 420
 ataatttatc tgcattgggtc tagtgaacta aaaatgatga g 461

<210> 32874
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32874

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 gtatataaca atgttatacc aaactctata tattctgttg tgttttgaat aggtgtgtat 120
 gagaatgatt ttttagacat gtattgtgat tctttagttg ttcttcattt ttctttcaca 180

taacagaccg ttccgaacga acataattat ttggaatttg tatctctcat atttgattcc 240
 atttgccctca agtactangg cctgtgnntt gctgaaacta acataattgt tttgtttgct 300
 gatatttttt tggaggccat tattgagaca taattaattg aagcatttta c 351

<210> 32875
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32875

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 gctcgtcacg gtgagacatc agaggctagt antttaataa tgtgtgtann gaaaaatcac 120
 caaatggata gagaaaaatc tataatcata catcttaggc aaataanggc ttgctacccc 180
 caacaataat ggctttttga ttcattcttg acattgtgat tttgaaaata aaaacccaaa 240
 gttattaggc attttatcaa catacaactc ccaactgatct gcaaaagaaa tatgagtaaa 300
 aatggaactg cgacaaaaac aataaagaag atgattttctc ttatcattcc agaaagaaaa 360
 tgangaacca ctgcaacaat tttaattcct atggacatat acactatgaa attacagtaa 420
 ttaagttata aatgcgatga attataaaaag atttctn 456

<210> 32876
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 32876

gtttggtggt ggcacattcc catcacaatt attttctggt ggattaagtg gcctcagaat 60
 aattaagaaa ggggagttga attaattatg aacgtgtctt gactaattaa aaaattatcc 120
 ttcttaattgt tactagattc aattaggctt tactactaaa ctatgagaaa gtaaagaaca 180
 gaaacgataa cttagacaaa agtaaagcgg agataaaaag tacacaacgg atagataaag 240
 agtgtaggga agaagaagac acacatcata tttatactgg ttcggcctca acccgtgcc 300
 acgtccaatc t 311

<210> 32877
 <211> 267

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32877

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 aatcataaca tcttggagcc atagttgacc taagtgaat ataaaaagct tcacacttaa 120
 tgagtgcga ctccactttg tgcaatctat gctatcgagt agcccactta tctaataaat 180
 ttgtttgtgca aaggatatgg ccagattgct tgaagaacta caacaactat atcagggagg 240
 catttcaact tagaagtgga acaaaaaa 267

<210> 32878
 <211> 373
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32878

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 tatatgctgg gaactagga atcctacttt tcaagtcttt tttaaagtga tttatatgag 120
 aatttaacat taatatttta aaaaaaaatt caagactcca taggaactac aagagaaaaa 180
 aatttcccggt gagaggaatc aagaacaggg atgngagtg aggtagtatt ccccgccctg 240
 ttgacatccc tacattgaac taaagtgata aaaaaagtaa gattataaat aagagtacat 300
 ttataaagat actntatact ttgggtttct tatgttacac aactcataaa gtatacacat 360
 atgttaaatag atg 373

<210> 32879
 <211> 198
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32879

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 ttggaccaac gttccaagta cagctcactt ttagaggatc actaacactc gacaacatga 120
 tcgactaatc atgatgtatc gaactatgta ctactgttac actatccatg caactcagta 180

<210> 32880
 <211> 522
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32880

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 taggagtcga cctgcagagc ttgcaagcct cttanccatt caagaataaa ccagcgcatt 120
 ggtgatggac tgtgaaaggt ttgaaaacct taactccttg aaagcgcttg aatgcaatcn 180
 aaacactttc agcaaaaaaa gaaaatccat atctatgaaa cttagggctcg ataatnggaa 240
 tgagaatgag aaaacggttt gagtaccggt atcgtgctgt ttcttcggaa agacaaccag 300
 tgtgcgaaga aagataangg agnnggtgga attggtgctt gtggatgcmc ctcggtggct 360
 ccggaacgat gaagctcttg aagccgaagt ggaggtggat gaacccttac gtttctttga 420
 tgattctacc atatgatngg agttttgcaa atggaatcgg tganataaac gaaaatgaaa 480
 aagaagatat tgcagtaccg agtcgattga tgagaaatga tn 522

<210> 32881
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32881

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 atttattttt ttaggcctta cctgggaata aacaacctat gctgatgtac cgaattgtgc 120
 accaaagtac cccaaaggca aagtaagccc atttgtctcc aaaggtgatc ctaggtggca 180
 atgggcctta tacaccttga taagcctttt aatgataacc caaacatatt ttggcaccca 240
 cttacaagat gggccttttt aacaactaac acttaaattg aataagtgtg catttatctc 300
 tcattggcat gatcactaca acttgacttc tctgaactgg ctgatcaata tatgacacac 360
 tgtgagagct ctgcttcttg ttacn 385

<210> 32882

<211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32882

aggcaggttt gctgagatcc ccnnnncttt actcaacact acanggggan ggnaaggggg 60
 gacatacttc cccnnnnnggc caacacaccc cgagcggcgg ggggatatac gttcttcaac 120
 acggtccaat cncctgccca acaaattacg catatgaaaa attggtcaat tggataccaa 180
 caacgtggtc aaacccggcc tcaatttaca tattccgggtg cgcggtatccc ccctgctttc 240
 tcggctctct gataccctga aaagaaaccc aactaaatcc gttgttcact attctccccg 300
 gccggttatt ttcttgcttc cggtgtctc attaaacggg caaggcgata gcctcgtatt 360
 catgacaacg ttatgcctgt tagtggtcca tgagtatttg acatccttat catgttgctg 420
 tttataaact gcattatgca 440

<210> 32883
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32883

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 aatagctgag gaaaattagt tccgtgaaga aaatccaagc cgaggtgctt ccgtaacgtt 120
 tccgtgagta attatgcaa gattctcgac cgttcttcaa gattcatcgt ccgttcttcg 180
 ttttcttcag tcttcaacgg gtaagtacct caaaccaagc ttttcaattc attctatgta 240
 cccgtggtgg tccacattnt gtttcatgta tttttattct tgttntcatt tactttntat 300
 acccactntt gacgtgctta agccatttat ntaagtcatt tctcgcttaa tct 353

<210> 32884
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32884

cgggcacacg attttgattn gctannntnn naccacacnc nnnnaacaaa gcggggggnn 60

nanacagggga gggngcacac tccttttttt taaaananac gnnncncnccg gggggcgggga 120
 gagaaacaaa cccccacaa cccgggaggg agccaaaacc acccgcgcggtacaaaagga 180
 ctccacaaac cttgggggtg ggccccgcct ggaagaaggg agcctcccct accttcaagc 240
 tcaaccctgg gtcttcaaac gacaatccca gaaaaccacc cctacacaga ggatcacgtg 300
 gccgaactac catttacgca ctcaagtaag ggactctgac cctaaaagac tgtcaaacga 360
 gaccttcacc ctcggtgtgaa tccccattg gagcccggtg ctgagtattg catggcgata 420
 ttctgccacc accactacct acatttacca tccatcaccn 460

<210> 32885
 <211> 254
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32885

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 acccaattac aataaaacct ttctatactt ataatatcga aataatgcan atatggaaat 120
 gtgtaaagtt tctaattgca gaaatatggg attgactnta ttctttgtat ccttaattaa 180
 atcctatctt gattataaaa ataaggatta catgtgtggg tattacacac atcagaaaac 240
 acttcgttca cact 254

<210> 32886
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32886

cggttgcgag tgagttctac atncatccag ctgcatctg gcttgtggca atgatcaatg 60
 gttttttaaa ggcaacgggc ccagggtggg aaagcaaaaa ttgggcaata aaaagggaga 120
 aataagggaa accctgctta aaaggctttc ttatcgggta atttcccaa cccacattgt 180
 ttaattcaca attacaacct ttgtcctacc tacaccata ttcccaaagg ctttctatt 240
 caacacaaac ttggttacca ctttcatgat gaacacactt tacaccaacc aaacatcacc 300
 aagaatgatt ttgatcgaaa agctgtgatt cacccaaatt cgtgtatatg ctactgtcct 360

attactgata tgcatttagt ataacctgca nggtctaact n 401

<210> 32887
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32887

aggacgttaa agactgagac tacagttnc aatnctnccna cccacacagg tgaaggagaa 60
cgcagaccgt tatgtcgcga nntnngctgg ccttgtgacc taggtttgat tacactctaa 120
ccacttaaag gtctgcttaa tataggaatc caagggaaaa acaattaaat aaggtaacac 180
cacactatga aacacattgc aacatataat taatatgtga agtgactctt cttccatcca 240
taacaatgga ttgatagtgt aatctgactc tagttttctct gaattgaata ctaagtgctt 300
gatcctatgt gatatatata tgagtgcgca tgatgctact cactgtttta cctgaattta 360
tcagggtgaa atacactaag acacatgagc tgagatatgg agtacactat ctg 413

<210> 32888
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32888

gcctcatatt aaatgatgca tgattgatta atgatagaaa tctataagga gacactttac 60
ttaaggaacc gagattcgag tacttctact cacattcctt ataggttggg ggcattgtgta 120
ctgttcaatc ctgggagcct tcttttagaa tcgcataacc gagtaatgta gaaattcaca 180
aagagatgct ccacttaaag atcaaggatt gaggatgca ctcatatcaa cttctcagca 240
tgcttanaac ttgaggggag ggggggtggt atctgccctg caggccccta aaaaggagat 300
cttgatctca acttgatcgc attggacctg gcccatacg agaccaccg 349

<210> 32889
<211> 197
<212> DNA
<213> Glycine max

<223> unsure at all n locations

[illegible]

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aagtttcgtc acacaccgaa atcaatggaa catcgtgcat attaaggagg tccgtacatc	120
cgtagtcaaa agggatgatt atgtatcgca nggtcgtata ttengaagaa acagtatcgt	180
acaaattcta gtttcgtact tacaaaaaag atccccaaaa agcagagggg tgtcttataa	240
atgg	244

aggnagtcgt	gtcctgtaan	ctacggcggt	attanctcgg	ccccgtcatc	ctttgagtcg	60
acttgaggca	tgcattctct	tannttggt	ggnnaganna	atgggctggg	gggtgggaat	120
atatttaatt	ttatcctcct	aaataagtgg	ctcaataaaa	tgtctaacct	gatgtattta	180
ccaaatttta	cctctccatg	atggtttctt	gtcctatcaa	cctctataac	ctcgggctaa	240
gttggtttat	ataatttgct	tcttgagtaa	tctcatcggt	tccttaaaaa	tgcttacact	300
attgagtaac	tccttgntgt	tagtcctggg	atctattcat	ggtgttaatt	cttgtacgag	360
tttaataact	cttgtacttt	aattaaacct	tttatgttat	gcagagatga	tatanaatgt	420
ggcaatcatg	tttttttttg	tcctttgtgg				450

<210> 32892
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32892

cggggaggt tctnatgtac nctgngacac nttttnactc angctcacta gactcgggtt 60
 ccccttaaaa gaagngcgtt tagttttgtn gnnnnnnnng ancnnnnngg ggggggggga 120
 ggcggaaaaa ngncgcaaac caccaaggnn anaacgacgg agaaaccac gctacgaccg 180
 gcattcccat acagcgaagn ancccaccca cccaacaatg gcagtactta gccataaca 240
 acccttggtc ttacctacca cccaattatt cacgaaggcc attcctatgt gcaacacaaa 300
 gcttggtctag cgcacttcca atgatgaaca ccaccttttg tcacaacca aagctcaacc 360
 aagaaagaat tttgctcgaa aagctcgtga attaccccaa atttcggtgt ctatgctact 420
 tgteccctatc tactgaaatg catggtggca taccgaggcg ggggctaccc c 471

<210> 32893
 <211> 217
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32893

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 gtgaattaac atgattattt catatttaag gtcagatttg aatcttnact atttgattan 120
 agatcaatat cactttcttt aattattnta tcatttaatc cctgatatat atgtactatn 180
 taacccttac tatataaaat ttacttaagt ctcattt 217

<210> 32894
 <211> 108
 <212> DNA
 <213> Glycine max

<400> 32894

ccctatagat ctgtccctct ttggtttgta ctattcacta ggcttgatta ggccccagct 60
 ttttaagttag taccctttca aatttgcttc tgcagctctt tttctact 108

<210> 32895
 <211> 467
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32895

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 gacccttttg tttgnttnan gaactctaca cgacggagtc tgttgcttgc acctgattaa 120
 cagggctaga taactatagt gctagacata gtgtgcacgc gtctagtttc tatgatgatg 180
 atcttataaa ggagtataaa tgacgctaac tacaacaaga gacatctgcg aacggagctt 240
 aatgtaaatt attccaaact cacgagacat cagtcgtggg attttttgc cttcacatat 300
 aacacgtgaa taatgtcata tagagaacaa ccctagttgc atcaagtatc ttcgtgggag 360
 gacgcaacgc ttatacttat ttgtattcgc attaaaatgt tcatgttcac tgtcctatga 420
 tgcaactaaa tataccttcg tttcgaatcg tgatgctcaa tcttttg 467

<210> 32896
 <211> 236
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32896

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 catgaggtga ctaatgtaag aaattatttt aatcttggag agggttgtgt taggctttcg 120
 acagccaacg taaaactnta tcgaatctct atgacatgga tcaattacgt aataatgtga 180
 atgctaggtc gttgccccga aaccaccgcg ctgtatggct cgagtacagt gtcaaa 236

<210> 32897
 <211> 473
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32897

 agggatgttt gggctgatta cagcgnatn attctagtagt ccgagcttcc ttagagggac 60
 ctgagggatt gcatagcttt ggttattccg ggaacccctt ttagtgggac acccgccac 120

cctaaggcac ccacccatag ggaacctccc caagttccaa ctccgaacac gactcgaccg 180
 ggcgggtatth ccacacgaca ggaactttcc ctccgaggcc ttgcccggat tcaccccgct 240
 ccaatgacgt acgaagatct tctaccattc ctcatcgcca atcatttggc cgtggtaact 300
 tcccgaaggg tntcgaacc ccctttcccg aagtggatg accctaatgc aacttgcaag 360
 taccatgggg gtgatccgn gcattccgtc gaaaatgctg gggcttanta caangatcac 420
 atttaatgga tgctngatgc tgactttcac aagatcggtc aatgtaggac can 473

<210> 32898
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32898

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 ttttttcttg tgccagccta cttattccg aaggtegggt tgatgttatt ctaaagcctt 120
 tgatggatga tttggagaag ttatggagtc gtgttttgac acatgatgtg ttcagggagc 180
 caaatttgat gagggacttt aatggactcc cttactattg catggtgtct ggggtgtggaa 240
 ctcatgataa atttttttgt ccgctttgat ggagcataag aagttgttac attacaatat 300
 gagagggaaa agtgtcattt gactcgatt gtaggttctt accagcattc attctttagg 360
 actaacaaaa accttagaaa ggggagaaga tatgatagct ccacctaggt gacacctatc 420
 agtgtgcatg agtaggaatt gcaaaaagtc 449

<210> 32899
 <211> 200
 <212> DNA
 <213> Glycine max

<400> 32899

gctaaaatta ggggggtgagg tccttttttt aacatcaaatt catgtggagt ggtggaattt 60
 gtgtggacca aaaaaaagtg attgaatgta ctttctcgaa actgttgata agctcaaaatt 120
 attgaatttg tgtgaacata taattgcttt ctttgtgttt ctgctatgat ctctgctttg 180
 gtatgtaaat ccctaacatc 200

[illegible]

aggctgcttg	ctgtatcagg	attatataaac	aggggacatg	gtatccgtaa	tataacattt	60
tccgtngaca	gcctaccctg	gggtgtccta	atgcatcttt	tttttttacc	accacaaacc	120
agtctgggtg	gaatctgggt	gcaccaggaa	aacagacata	aaatgggaga	acgagaaaaa	180
aaggaaacca	caaaatgcga	acctacacct	ctacatatat	gcctgcatat	ttgatcaatg	240
tacactacac	gttttctcat	tatttatgtc	tacctgctca	ctggattaat	cggaatgtac	300
tacactacta	ctgtgacgca	cgcattgatac	ggattttgtgt			340

<400> 32901

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aacctaacct	ccacacacccc	cttatatttag	ttaagctcac	ccccatacca	aaatacatga	120
aaatataaaaa	aaaagtcctt	attacaatga	ctactcaaaa	tgccctgaaa	tacaaggcta	180
aaaccttata	ctactagaat	ggccaaaata	caaggcccaa	aagaagtaaa	aaccaattct	240
aacatttaca	aagaagaatg	gatccaacct	tgacctatgg	gctcaaaaat	ctaccctaag	300
gttcatgaga	accctatggc	cttcttttagt	agctctagcc	caagcctctt	ggagtcttct	360
atccaataacc	cttggg					376

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<223>      unsure at all n locations
<400>      32902
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13703

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 ttcatttggg cagggctact accccacaca caaatgacct cctccgaccg gggataatct 180
 cctcgaacct ataaacttac tttacccgca gaaggctcaa gccttggggg cttattttatt 240
 gggtattggg caacaagtac atgtgtattg atcctgaact cctttcacac ttaaccacaca 300
 aatgacaaag cgggtncctt tgaaaactat tcccaaattg gtttttgtca taacctcgga 360
 tggagttaat attgattaac caccaggatt tccccccacg aaaaagatat ttatgggagt 420
 atttgagaag aaaccct 437

<210> 32903
 <211> 294
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32903

atttaggatt ccattttcta gtaccgtggc caaatgaac tctgcttcc atcatctctt 60
 ccaagattat gttccaatat cttntgtca tttatattta tccccacact tttctttcat 120
 ttcanaatcg anattctata aattttttga aatgaaagaa agagaccggt tatactgaaa 180
 tagaaataag tgttccaaag gaaccttctc ttctaccgaa gattggcctt tgataaatga 240
 tcnnggccat ttttctattt aataattaat atgaatatcc tctttattat cttt 294

<210> 32904
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32904

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 angcttagag gaaacacttc ctenttgnnn nccncacgc cggngaagcg ggccagtatt 120
 tatcttccta acccaaaagc catgtgggtca nggtactaat cgctgcctt ggcagaatct 180
 attgtgggac attcaagggt acaccaggt tctccgcgga tgtgattcta gtgtgcattc 240
 tctccctgtt caacagtttg cagttgcatg tctccttca aaattttgag agtatcctga 300
 ctgggtctata ctgggcggtc tctcactgg agctcactgt cacctctacg tctgaatgaa 360

<210> 32907
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32907

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 gagtacgtga gctcagttgg aggtgggcaa caggggatgg tgggttatat gtgatttgtg 120
 gatgtggaga atcgttttgc accatcgccc gaccgccacc tagtaccaca tgtgatgggt 180
 accccataat ccgacaagct tgaaatgang aagtgtagaa cggtgagact tcttgctttt 240
 attcgttgac cacagagtgg tgcctggaga tatgtcgcan gggtcaggag accttgnnga 300
 cgtcatgtgg ngtgctattg ccataacca agctttgaca atcccgaccc aaccgggca 360
 tagtcagtca gtgagaacct gtgttgta 388

<210> 32908
 <211> 245
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32908

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 ggaccgaggt ggatccaaaa aacccttagc taccatcgac taaaaatagc ctggctgatg 120
 tcngcaaaaa aaccttagtc gacgtcaacc gaaaatctgt agccgacatt ggctaaaata 180
 tcctagccaa ggttgaccga aaaatcacta gctaatttg actaanaagt agctctaact 240
 aatgt 245

<210> 32909
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32909

gctttcttga gtgatntatt ggacattaaa aggtgtttat tgatttaacc gaaattggcc 60
 ccttcccaat ggtngtacct tcattttgcc ttcacaacac cgacgacgac gaccacttta 120

aaggtgacga acccacggcc caccctacga tgtcaatgct gatagaagga gagtgacact 180
 taaaaatgga aaaggggccc aaaggttgat cgtgttcaag tgagtggaat gagacaaggc 240
 ttgtagaagt aaaagggcac tgattggatc ctcacgtacg aaaaaaatng caagttgtct 300
 gataaggatg agtgacattg ttcttcngtc tgaccaagga atttaatttc aaatgtaaatt 360
 acaataaaat ttgatttgat acttaacata aatagatatc tatatagata gataatttga 420
 aacaaaatca attn 434

<210> 32910
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32910

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 tataaccttc attattttta ggattttttt tgggtaaaat gagaaaaaga taaaaaccaa 120
 aactttctta atacaactat gtgatgcgaa aaaacatcta tagcaaagga gagaggaata 180
 tcacactcct caatgcacac gaacataatt ttaaaaaang aatcagtcag atattagttg 240
 aagtgcata tccaatttct atagcttgat aatntcagtc ttcaaaaaaa gcccgaaacg 300
 aatcacatca canatataat ttcactccaa agctgataat ttatttntat cattatTTTT 360
 tggttagcat gctacatatt n 381

<210> 32911
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32911

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 tttgatgggtt aaaatatatt cttctcaacc ttattcctta ggccggattc tttccttaaa 120
 ttccctcggg aaggttgacac ttactttaac cacaggtgct gtccaaacct attgcaagaa 180
 gggaaatcggc acttttaaata ccttctggga ggccgtttat ttcaaaactg ctcggaccgt 240
 cgacaatgga atgggtggata accaaaaaat tagtaaaccg gtctaattgtt gcttgtaacg 300

tctgtttaaa gaatattatg accccttacc ttccatgggg tgtaaggagg cccattgta 360
 aaaaaaccca ctcttggttt tctgcctgga gaaaaataaa aga 403

<210> 32912
 <211> 214
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32912

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 agttgtgtga agcatgtaac tatgtaggtc cagatagtaa acttattata acaacaagag 120
 ataggcattt gcttagaaaa gagttgggga cagacatgtc tatgaggtca aggcattggag 180
 ctttgccgaa tctctggagc tnttttagtt acat 214

<210> 32913
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32913

aaaanatgat gcctagctnn cctttgtata ntcgngngac aatnattaan nnagccttat 60
 accattaggn gagatggact acatgatcat atagggtcttt ggctcgggta agaccaaatt 120
 tgggagatgt cttgtttatc ttttaccatt attcagaacc tnttcaagtt aacattatta 180
 aacttaaata gatggaggga tgaaaaaatt ggagatttca agttttaact tttgaagacc 240
 aagatgataa aatctatctt gagggatatat atataagggtt tacctcgatc ttaatgtggt 300
 tctcatctct cctctacatg cgatctgatg cacttctatc tgtagccaa taatgottaa 360
 ctctcttctg tgacaacang cctcatgata tattcaactt gcaagtaagt gggagataga 420
 ccgaatagat gcctactgac ttattttaca ttttatgcag cca 463

<210> 32914
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

[illegible]

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<210>      32915
<211>      491
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32915
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<210>      32916
<211>      437
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32916
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13709

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 tccttcttta atcacccaac ccacctatt acttccttgg gttctcttan ttattaacca 240
 aaaaatcatt attgatattt aacatgtcat gattgttatg ctatacacat aacatatgag 300
 ctctttgatt ttttaattaat gactgagant aactaattac cccttagagt gaatngctca 360
 ctacaaagga gctagatctt gtaggaattg aagcttaggt ctatacacct gtnnttaatt 420
 actntctgta ttaacan 437

<210> 32917
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 32917

ctccaataaa cctcctgacc ttacagcaaa atcaacctca gcagtagaac aattatgacc 60
 tctccagcaa cagatacaat cccggatgga ggaatcacc taatcccaga tggcttagcc 120
 ctcaacagca acaacaacag cctgctcctt cccctcaaaa tgctgctggt cccagtagac 180
 catacattcc tcttctaatt caacaacaac aacaacaacg acagcattta ctgagacaac 240
 aatccactat tgaggcccct cctcaacctt cattggaaga atattgacgc aaatgacaat 300
 acagaacatg ccagttcagc atgagactat agccctc 337

<210> 32918
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32918

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 agnanaacct gtgaagccga cggttcggtg actcccgncata cataacaaaa cgcggaattg 120
 aatgtgaact ctaccatttc aaacgacata acttttactg gatgtctaata gagccccaat 180
 attcgaacgc tcaaattgaa ggtgaacttc tagcaaatca aacgcccata ttcttttact 240
 ccgatgtctg attgaggccc gtcatatatc gagacacctc gaaaattgaa tgttgaacat 300
 ctgaatgaat tcaaacgaca ataacctttt actcagatgt ctgatatagt ctcgtaatat 360
 atcgagatgc tccaaattga atgttgaagc tctgagctaa tttaaacgac aacaactttt 420

tacacggatg tctgattgag tctgtcata tatcgagatg ctccgaattg aatgtt 476

<210> 32919
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 32919

tgcttgcaact cgctattcct gactttgaca attaactctg aatatttact atcaattcta 60
 agatgttaca gaataaaata aagatgttcg gcgagattta tattaataa tctaagaaat 120
 gtattgtatc ttctaaaatg tgataaatat tcaaagtcag gaacctcgta ttttggttca 180
 tgttctgtac caaacaatt tatattttgt tatgacctaa gttgatattt aataaactct 240
 tctgcacata tagattctat tattattaaa gttcata 277

<210> 32920
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32920

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 tttgggnagg agcccggggc ggggtgtagga aggaaaacaa aacccccaga nccccccagg 120
 gaagaaatag ggtggctgct attcatactt atgatccact gctatattcc ttaattccac 180
 gatgttccaa gggaaatgct tgattgggcc aagcgtttcc acataatttt gtggatttgt 240
 tccgggcttt tgtaccttca ttaagattct cgagtgatgt atatccttag agatctaata 300
 gcagttattg ttactagac gacactttga ttccaaaatt ttagattatg gagtgcttaa 360
 actttcggag gagagaatat tgaaggaaac accaccagaa tagttggtac atattaattg 420
 tn 422

<210> 32921
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 32921

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 tatgctcata ttttaactaca ttgtgggttat gcttaagatt ctgtgacatg aaactctgac 120
 ttcccttttaa catccatttg gtttgggttat atagataatt ttgcaccgtg taatttacca 180
 cctcttgga gacataggat atttgataat agagagggcc cctgtgactt ctgaaacgca 240
 cgttgctggg caagcagaag tgctgaatat ctttgaaatc 280

<210> 32922
 <211> 239
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32922

gcgaaagagt atctagcgaa tactacccac aggggggaaaa gaaccttacn caaaaaaaag 60
 ggggagggaa gcaccccacc gcccgaaaac gaccacaccc aaaagagggc aaggccagca 120
 caagcagggc caaacgacac acacaaaaaa cgcggaagcc aggcacacac gacggaaaac 180
 aacacaccaa aaaagcggac gcaaaaccaa caccggaaac gaccaacgg aacgcagag 239

<210> 32923
 <211> 539
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32923

nnnnccataa ggggaaggga tangccgna nntntntngn ngacnnntnt actnnnnannn 60
 cnnngcngna gtacnnanna gngnnganga gnngcactag cgatgagaga anactctacg 120
 ctcnnttggn annnnnnnnn naannacgga aaggngcggg gagtgtttca agaggaaacg 180
 gcccaccaa cccccgacc acaaattnggc gcacaggaaa caggaaatcc acgcggggcgg 240
 gaccatcaa caccaagaca gcaatggcac atggaccatt gacattggag gaccaacca 300
 cncaaaagga catcggaacc gtggaatggg cagcatgaac tcacaacaac tacccttttg 360
 gggagattac caagaggcta atcactactg tgccacctgc tagacgcttg aaccacaaca 420
 aatacgccag ctttatgacg ttaaaaagcg ctcttgagg cacctatatt tatgacccta 480
 cttgtaaaat tatctctcgt ctgattcaac tcggttataa aaattattcg ttaatctat 539

<210> 32924
 <211> 460
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32924

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 gagatgaccc attttttann nnaccgcccg aaaagggggg actcaacaaa ctcccacaaa 120
 aattaatggc gttagaatgg cctcaaaaat agaacattca atttcgagcg tctccattat 180
 tacgggactc attacacatc cgagtaacaa agctattgtc ttttgaatta gcttagagct 240
 ttcaacaatc aatttccagc gtctcgttat ataacgggac tcaatcagac atccgagtaa 300
 aaagtcattg gcgactgaat aggctcagag cttccacatt caatttctag cgtgacaata 360
 tgtgacgggc ctcaatcaga catccgagta aaaagctatt gacgtagaa ttgctcagag 420
 cttacacatc aaatgtcgac gactcgatta tgacaagaag 460

<210> 32925
 <211> 405
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32925

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 gaaaattgct cgaacgnnga cccgaccaac ggggggggagg agagcaagcc cccccgacg 120
 gggaaaacac accagacaga agacagacgc cgcgacagag aagacgaccc agccagaaaa 180
 cgccacaaca accgaaagga aaaaaagaac ccaannnccc caaaggcgag aaccgagcgg 240
 acccaccccc cggaccacgg aaagccaccc gggccaggag ccngaccga acaaagcacc 300
 cacagagaaa caaacgccgg aaagcggaca acccagagga aaccaacaa aaacgccgac 360
 ccccgacacc ccagacgccg ccccgagac aaacgacgaa aagcc 405

<210> 32926
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 32926

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acttctatat tgggtcttgcc taggtgatac atcaattgaa aattatagtc tttcataaac 120
tccatgtaac atatttgtct tatgtacaaa caaatacttc caactcatga gatcagtga 180
cacatcaacc ttgcttcag aaggataatg tcttcatatt ttcaaaacaa atatcatcac 240
aacaattcta gatcatgtgt aggttagtgt ctctcacaca tcttcaacta tcaagatgca 300
tatgctataa ccttcctatg ttacacacca atatgcaact canaccttga taagagacat 360
cat 363

<210> 32927
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32927

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tgttttcttt tcnchnaangt cctggagatt gtgggtgggtc agaaccctcg gactaagcgg 120
ggctattgcc aaccagcttg ccaatccacc acccggttaa cgacggagaa cctgaagtcc 180
taacagcgac tctgcaccac aataaagaaa cagacccaac acgtgctgtg tgggtggcact 240
ggaataggaa aagagatggg ctcggtatga taccaagtgg aatcatacag ctaaagtaga 300
agagccaatg cttgaattat acccagggtg acatacgctg aacaatcaga ccacgggg 358

<210> 32928
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32928

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caacttcctc aanngaaacn cnggccgggg aggggaagaga ncannggacc caccncca 120
ccaacgnnga gcgcgaacca caacgagaac aagagagaga cnaccgcca cggaacaaaa 180
ccancaagan naggaaggaa gagggggccac caacagacgg gaaagaaggc cacaacgaag 240

accaaggcaa aaacaaccgg aagaaaaagc accccacaag ngacagacaa agaagaaacc 300
 gccacagca agagacaaag caccacaaac ccacaacaga ccgacaaccg gccaaaagga 360
 aaccacc 367

<210> 32929
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 32929

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 aatatcttaa gaaggggggt tgaattaaca tattgcaaac tatttcccca attaaaattt 120
 tattttaatt ctaatgcaag ttacaagttc ccttaaaaat gaactcttaa ataatgattc 180
 aaataaaaca atctgaatat aaatgcacaa caataataaa taaaagattt taagggaaga 240
 gaaagtgaag actcagattt atactgggtc ggccacacca ttgtgcctat gtctagttcc 300
 taagcaaccc gcttgagagt ttcactatct tgtaaaatcc ctatacaagt tttgaacaca 360
 caaggacaat c 371

<210> 32930
 <211> 252
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32930

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 gaaaatatcc attttcaaca aaaatgaatt tccatagctt cagcattgta gtaaaactaga 120
 gcagtgaagg cgcactctgc angacagcag aaacaaaaca tgacccatt tctttgaaat 180
 gcaaaaagaa naaaaaatgc aacagttttt ggcacatgta acctttgagc tntgaccgga 240
 gaaatactta at 252

<210> 32931
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 32931

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ttgactgacg tctaattang catgatattt catgtctatg cttttgattg agcgaaatcc 120
atgcttgggt gctaaatatt agaaaaattt gatgtacctc gtgtttgctt aactaaattg 180
agtgttggtg ccaattccta atacatgctc attaatgggtg attattgttt taccatttaa 240
aatttatgtc gttcatgtat atcttttctt tctccattgc tctactatat aaacacgtgt 300
gagtatacaa ctaatcacac cactcaaate tctctcattt tactctctcc tcttgctctc 360
tgaactt 367

<210> 32932
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32932

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ccggagaggt agtgcataatg ttctcttact gnactaancc atnngcggcc caggtttcat 120
ggctctggtga agatcctcat aagcatctaa gggagtccea tattggttgt tccaccatga 180
acccccctga tgtccaagaa gatcatcacc tttctaaagg cttttcctca ttctctagag 240
ggagtggcca aagattggct ctactacctt gctcccaggt ccattttcag ctgngatgac 300
cttaagaggg tgttcttga gaaattcttc cgtgcatcta gaaccactgg catcagaaaa 360
gacatttcat gcacatgca acttaatggg agaaagcttg tttgagttat gggaaagatt 420
caaaanattt gtgcaacctg acctcaccac catattcttg caactctctt tcatattcta 480
tagggactn 489

<210> 32933
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32933

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ctgcttcaaa tgataagcat ttgcttcaag aataattcaa gagtgcttca acaagcacag 120
ccatgtttta agattcacta nagaccaagc cttgccttaa aacaaagtgc tttcaagaca 180
tgcaaggctc tggtaatcga ttaccaggaa gtgtaatcga ttaccagaag acagggttga 240
gaaatagctg ttgaaaaatg ttttgaattt gaattntcaa catgtaatat attaccatat 300
gtctgtaatc gattaccagc aacgaaactt tggaaattca nnattcaaag tcataaccct 360
tcaaattata actgtgtaat cgactacaca aaca 394

<210> 32934
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32934

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ggcaagcaca gtagcatgcg caggaacacc agtagcagcc agacgcaa at gcatttgtgc 120
cacctctacg acaaccacca tctctgtcga catgcggatg atagagctcc agatgcacgc 180
atatatgcaa catgtggccg accagcaggc ggccaaacat aaggtttagg tgcaactgaa 240
tgaaagctnt tacctgtaca cctgcatca gtagcgctag gaccccaatc cttacccatg 300
gcctactccc g 311

<210> 32935
<211> 283
<212> DNA
<213> Glycine max

<400> 32935

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tacttcaca acttcattca caactttttc acttctactc ttctttgcat tctcattttt 120
ttcatctttt tcaatcttct attttctttt tcttgggcat tcaatcattt tttcttgacc 180
attattagat tctctctttc ctgagttctc tcaccttgct catcattttt cttgttatca 240
atacctctct tttcaatgcg gtaagccaca tgactaagaa aaa 283

<210> 32936

Figure 1

aaaacatcgg	ttgngactga	ncgacgtgac	ngttanaata	tttttncttg	ntgntnctac	60
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tggagagcca	gggaaaagaa	gtcttggtga	gggaccttaa	ggacacaaga	ggctagaaat	180
caaactctct	agggttcac	ttggtatgga	tttgaaccta	acttcagaat	tgtcaaaggg	240
cttcaggag	agggcaaaaa	aaaaaggctc	atagaacttt	atgggtattg	gnttgatttn	300
tataggtagc	aatgattaa	ctaccattct	tacattatta	aattgttttc	actatagaaa	360
tcaattgcta	agtgcaaccg	tggagagcaa	ttctattgac	ccanatgttg	ttgcagtgct	420
acactcattt	tgtcagctga	aacactgac	ccattctcat	gtgatagaca	tacan	475

aaacctccgg	ggcagcaaac	ccaacatgag	cacaataata	tgacctttca	agcaatagat	60
acaatccagg	ttggaggaat	catccaaata	tgagatggac	aagtcctcca	caacaacaac	120
agcctgcccc	tctatttcag	aatgctgctg	gtccaagcaa	gtcatatgtt	cctcctccaa	180
tgcagcaaca	gcagcaacag	tcacaacaaa	gacaacaagc	aactgagggt	cctcctcaac	240
cttccataga	agaattagta	aggcatatga	ccattcgaaa	tatgcaattt	ca	292

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<223>      unsure at all n locations
<400>      32938
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13718

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caagtgccac agcctgatgg cgaaatgcgc ctgatgccga ttttctgctt acgcatctgt 300
gcggtatttc acaccgcata tggcgcactc tcaagacaat ctgctctgat gccgcatagt 360
taagccaagc cccgacaccc gccaacaccc gctgacgcga accentagag gacgcttgaa 420
tatatgtcat gcttggacac atagagggtt gcggaaagat acctgtgac 469

<210> 32939
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32939

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caacaagaat caagccaagg ctattgtgca aggaatcaat ggggcaaac acaccaaag 120
attatgatga tggatggctc aaattctcac aaacgttaac ttatcacttt caaattgagc 180
tttcaaaact ctcattgacat gtagaagaaa aacaaagatt tcaaatacaca aaatgtcaag 240
agacttttat tatcaaaaca attaccatt tcttgaacat atcctataat ttaaagaaaa 300
atatgcaaag ttgtacatgc aaacaaaaat gacctcaaat attaaac 347

<210> 32940
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32940

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tctctaggcc ngaaccagc gcgggggaag tcanaaaaac cccactccga ccagacaggc 120
agtacgggag acgcggccat actacaaggc gcaaaacgag acgcatcggg caatggggca 180
aaacaaaaag ctcacccgtg gagatgagcg agtactgaga cagggcaccg cataactatc 240
cccgcgtgta agcgacaaca aaattcatgc aacagtccca tagaaaaatt ctcagcacag 300
tgagacgtga caatcctgtc aaacaggcca aacgacgact tacaactctc gtgacgacac 360

attaaag

367

<210> 32941
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32941

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gtgcacctga aggcgtgcaa gctcctataa aggctcccc aaaacgctnc cgcgaggctc 120
ctgtaggaag ctttcctcca aggctacttt gagaagctaa tatctaatt accctggccc 180
ctctattacc taattaaatc tccttgaaag tagtgccaga taatataaca cgataactta 240
ttccaacttc anatataatt actaacatat atgtatatat atatatatca ggggtgttaca 300
ttgaccaaac tcgctagaga tgtcatcacc caccacaaat aacaccgaag tcgtgatcat 360
aagcatggag actcanatag agcatggctc ttctcactgc atcttttagga tacctatgct 420
agtcgaagac acatcgagag cgaagaggac gagtatcata aactagaccg tgataaact 480
tag 483

<210> 32942
<211> 107
<212> DNA
<213> Glycine max

<400> 32942

actgtgaaaa ggttttgatt gtagtatata tgtatcatta ccattgttgt atcgatccac 60
acagacattg aatcaatcat atctaccctc aatatactgt gtatcat 107

<210> 32943
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32943

cgtnnacacc acagggaana aggggtgaatg accgtagac nacnatatat atnanccna 60
caacangga gggggaagaa aagcgggana ctttctttat taaggagnnn gggccnccgg 120

aatactagt

429

<210> 32946
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32946

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aagaataggg tccactggta aactactttc caatgttgcc ttccagaaat ggcccagga 120
cctggctaaa aggtccagaa gacaaggcac cgaaggaact agttccgctc ccgagtatga 180
tagtcaccgc tttaggagtg ctgtacacca gcagcgcttc gaggccatca agggatggtc 240
gtttctccgg gagcgacgcg tccagctcat ggacgacgag tatactgatt tccaggagga 300
aatagggcgc cggcgggtggg caccactggg tactcctatg gccagntng atccagaaat 360
agtccttgag t 371

<210> 32947
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32947

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agcatcaaca agaatcaagc caaggctatt gtgcaaggaa tcaatggggc aaaacacacc 120
aaaagattat gatgatggat ggctcaaatt ctacaaaagg taaacttata actttcaa 180
tgagctttca aaactctcat gacatgtaga ggaaaaacaa ggatttcaaa tcacaaaatg 240
tcaagagaac tttattttca gaacaattac ccatttcttg aacatatacct ataatttaaa 300
gaanaatatg 310

<210> 32948
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 32948

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gagccttggt cctttcctgg tttgaaccta cttaaaccct aagtgaaaaa ccttatatac 120
catatcctta aggaattttg agctttggaa tggttttggg aataagtgtg ggggggtttt 180
gtttcattgg acaacttggt tttttggcta tgcttcatga tgtattttgg tccatacttg 240
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ctaaagatta aaaaaaaaaa aattcgaaaa aaaaaaatcg aaaaaagaaa aagaaaagca 360
ataagttgag tgaatagaac ttanatggca caagaatgat gaaactcttg gttctactct 420
tcat 424

<210> 32949

<211> 329

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32949

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cttatagtta tacatcttat accgttcaac ttgaccatgc acggatgtga tggtgaccca 120
atccaggtga tgctaagcac cgtttgggaa ttngatcaa cagccctgta ctgtactgaa 180
cattctacat aaagaanaga aggacaacaa agaaaaccag cctcctcaga aatacagcan 240
aatctcgtct catgcagtc tctctgttg ttaaagactt gctagtctg catgcttctt 300
catttgtgca ttggataaag acatgtatg 329

<210> 32950

<211> 257

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32950

aaaaattata ataaaatata ttgataacat tctcaataaa aaacacttac tggattgtat 60
tttcattntg aaatggagaa ggtagtacac taaaaantta aaaaacta ataatatatt 120
attttacatc actcttttat atgttgttta taaatcagta tcaccctagt tagtaaaatt 180

gagtcttgtc attacaaggc cttttctccc ttgtatcaca tactcttctt ttcctttgct 360
tta 363

<210> 32954
<211> 209
<212> DNA
<213> Glycine max

<400> 32954

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cagaccttca aaccaagtct tttatgtacg tgggactgac aatcctcttt atagatatatac 120
tcactaattg cacctctgtg tatgggtggc gacccccgat gtgatactgt acaatgtctt 180
gtgactgcta tgtatcccct gtattcatg 209

<210> 32955
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32955

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ttgaaatggt cttgatggat gcaaaggat gttgtgattc agcttttgct ttgtaaaata 120
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aatatatggg atctggttag tcatttcaga gactgggttt taggttctct ttctgggatt 240
ttacgttggc tnttcttggt ctataatgan tattgagatt tgattgttaa atacaattgt 300
ttttctttct tggccaatat gacatgttga atga 334

<210> 32956
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32956

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gaattgtctg ctagtatatt ggaaaagcta tagattaatt aaactaaacc aaacctgcaa 120

tacacattat anttttgttt gtaaagagaa taaatattga aatggacatg tntaaacaat 180
 tgcaatttat catacaacca tggctattca gtttccaatt gattctgaca aaaataagaa 240
 tatatagaag aaaataaaaag gtttgatgag aattctaaat tacccaaata cggaaccag 300
 tgactaggag taggatcaaa taactagtgg ataccctcta acaaatagata gcagacatgc 360
 ttaac 365

<210> 32957
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32957

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 tcaacatcgt tctgttgac agtagtttca cttggtcagg caattttcta ctccagcagt 120
 tattcataga taactcaact agtttcccta cccatggaat gtangagagg gggatcatga 180
 acctaaagcc acaagataag ggacaatgga agatatagca tatgttggac aaaagggaag 240
 caaacagtta aaagtgtctg atcaaacaag tgccttaaat aatatcaact taatagt 297

<210> 32958
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32958

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 gttttttccc ccaagattgg aggaaccgaa ggatcataca ccatatgtaa aaaaatgata 120
 ggtgaagata ctaagtgatg cgtgcatact acgaactgct gctggttctg catcactcct 180
 ctgttacacc cattgaaaaa atgtaagtta acaatataat catttagata tangggaaat 240
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 aataagtaat tacttattaa aaaatgggta tggctttgag gcctatnttc ttgggttattc 360
 attgcacagc anagcatata gagtgtttta taggagaact ttatgtgtgg aagaatttgc 420
 catggt 426

<210> 32959
 <211> 331
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32959

gaaattctga tactggggac agatgtcgta ccggatgtca cgacttcacg cttcagaaca 60
 tgcagattat atgtgtctgt atgaacagat taaacaagta aataacacaa gagaattggt 120
 aaccagttc ggtgcaacct cacctacatc tgngggctac caagccacgg aggaaatcca 180
 ctaaaatagt gttagttaa agtctaacag cactgttta caaccttctc acctaaccac 240
 taccgtgca atctctacct aagagccact cttagatatg agaaccctgc tcaactcctc 300
 tcaaccacac tcccggtgtgt acaaataaat c 331

<210> 32960
 <211> 116
 <212> DNA
 <213> Glycine max
 <400> 32960

cgctatgatg gacccaaatg acaagagctc cagaattaat gcatacttta actaagccat 60
 cagcgctaata acaaccgcga atggcatcga gcctctaact taaggataact ttacta 116

<210> 32961
 <211> 195
 <212> DNA
 <213> Glycine max
 <400> 32961

aaaccgcgg accaactaat cctgggcaat ccctttgcac tgcgtataca aagccccccg 60
 acgcctccac agtgccacct gagcgaggcc cgagcgattc tctacgccgg cgatcaacga 120
 agggcctcta acatgttgag cgatataacc gccaccgcga cccgtgacaa cctgcggtga 180
 aagaaattta cgcct 195

<210> 32962
 <211> 447
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32962

aaaaaatga attttcattg actancnacc ggcataact ancacggac ccgggaatcc 60

tttaaagtgg acttgaaggt tgcaaaactnt ttcagaccgn aagccatgct aaccaccttg 120

gttccttgat acagggcata caaatccctt tcttcagttg ggtggccctt accactcgga 180

tcacgaccaa catattgaaa atttgccctg cctttatccg tgccttgcat gcaactgtact 240

tcattggacc gcattatgca tagtgatgga aaatggcact atggtagtct angatcaaaa 300

ctccatcttc tagcctaaga gaacaaagaa cttatagata aattcatgat tggcaataca 360

aatgatagat actgaattaa tgaagtcaac acttttgggt cattttgaca tatatgtgac 420

acatccatta tatacctagt ttttaaa 447

<210> 32963

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32963

nnnccttcgt taggggactg agtnatcana nctntatac tcaagcttgt gaaggggaatg 60

atgatgggag aaaaagggat gggaatgttt ctcaatatcc tttagtggga aaaaaagcc 120

cataaaactc ccgtgggtgg aagaaacccc taccatggat tctataaagt aattaaggga 180

ggtttttcat ccaggggtcc ttaaagtcct tatttaatta tcaggtggat taagggttat 240

tagttagaat aaaatacctt tcctaaagta ttatgggatg gtaagggcat aacatgatgc 300

aattggtttt gcctaattac tactaagtta aaatggtttc atttatattt atcatgtcat 360

gtgtactaaa aatttaatat tgtaactctt tatgtaaaca tccatgatnt gtacaaanga 420

tatgatntac tttattagtt ttatatatga tgagttaaag acctagaaag acgaattcaa 480

attaatgaag aagnan 496

<210> 32964

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 32964

aggagtgacc tgatcagcga actacnaccg cttactgagg gggaagaggg gctctctgcn 60
nngcnaanaa agcggggggc cgaacccggc cgcgcaancc tcaccgacaa aagccgggag 120
ccctgcggaa cagaggcaga acctagtccg cccccaaaaa gccccccgaa gcagaagcgg 180
gccgcacaga caaaacagac gcgcgaagag agccacacga aggccaccga aaatgtggca 240
ggcgagacct gcgaagaaaa gcgaagaaga actacaagag gtcggaagaa acacgagagc 300
cggcgactaa aacggggggc caaca 325

<210> 32965
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32965

tgacacaatc aatattctgt gtcttatcaa gccactgttg tantttaaca nataaaaaga 60
tttgtggtgt gtttgctcac tgactaaatc ttaattgtat tacagacgaa tatgaaatct 120
aagcaagcac ttagtctttt ctatcaaagt gttttgaaag ctttttcgaa ctatacaaga 180
atatatagag agattttcac aaaacaaatt taaatgtag cgcacagggt cgtaacccat 240
gtctttaaaa cttttgttat ttataggcat tcatcttcaa gtatttggtg tctctaaaca 300
aatagttntc ttcacttgag cttgcatatg atgtttatgg tcgttggggc attgcattaa 360
atgcacgtac ttctttatgc cagaaaacca ctcttattca ctctcatgta gaataattca 420
gca 423

<210> 32966
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32966

ttcttgtttc gacctactta cccgttgaag atcgaagaac gatgaaaaac gattgaacaa 60
cgtcgaaaaa cggtcgaaaa ccttcgcgaa attcctcacg gaaatgtttc ggaagcgcct 120
cggccttagat attctttacg gaaacaattt ttccaagcaa attcgaaaga gcgagaagtg 180

cctaaggggc tgaacccttt tgcacttcac ttctccctt atttatagca naatagggga 240
gatgcttgcc gccagctcg cccagggag catggttgct tctccataa gcaacagcct 300
tctggaggaa tncctctggag ggcccaagtg ggctggntg ctatttgac ccccttttta 360
ctaatacacc ccc 373

<210> 32967
<211> 417
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32967

ntgatcttcc accaccgcca ccaccatcat cttagatcta tttttttata ttaataagac 60
cttgaatttc aggctggat tttggctaaa ataataatgg aattggacca attaacaatt 120
tccctatttg catggaatgt ttgaacaaat ataaagtatg ttatttgact atatgggttt 180
tatagataat ctatttatga ttgttgcttc atgggttggt tgtagtttc tcaatgaatg 240
ttgtatggat gtgtagttat atttgattat ttcaaatttg ttacgcactt tggctctttg 300
ttgatgcaa aggaggagag aaatgggatt aaaatcaaga actcacatga gtaatcaatn 360
taattttaag atatgcacaa attcaaaaac aaagggggag aatctatgtg agtgatc 417

<210> 32968
<211> 326
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32968

cactnctcta catgataaat gagtacaacc atttgattc ttgcaggggg gggtcctaaa 60
ttcaaagaac actttgcctt cttacaacta tctctattag agaatgatat gcaaattaac 120
aagtaatttt cttctattca ttagaagtga ccactccatt aattgtatct gcatgttata 180
gaatttgtaa ttcatttggt ttcttgaaat attattggta ggttataagc atcaattttg 240
gtgtagaac caaggtgttt ttttttaaaa aaattgtcta ttatcctctt ttagatgcat 300
cctcattttt taaattgagc ttatta 326

<210> 32969
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32969

tcgattaccc tgtgtatttc tgatacgttg gannattcaa atccaatntg gtgaagagtc 60
 ancaactcnt tcataataat gcacttggtg agatcgatta catgaactat ggtagatcga 120
 ttaaccagtg ataactcttt gaataaaagg tcaaaagttg taactcttga catgattttc 180
 tcaaggttat aactcttcca atggttctct tgatcagaca tgaagagtct ataaaagtaa 240
 gaccttgact tgcattcaat agaacttttt acaactcttt gacaattttt tagaacttct 300

<210> 32970
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32970

aaaaacaaag gacttttagn atgtcnntt atatatatta cctgcatgg ggctaaatcg 60
 gataatcaca gcgaagnntt agcctcggtg tcanacagna acacncacgn gggggggcct 120
 tcgatgctat acgctctatt tcgaangagt tcaaaagtgc acccctcgaa gcgttttatt 180
 tcctatttct tttgggagaa taattatagt cgtgtgcgtt actactaaa attcgctttc 240
 tattgactaa cggaaggcta agtctccagg gttggtctct cttcaggatc aaggacaact 300
 ctctatgacg atgtattatt actattaaat tctgatcaga ttttcccctg caccaattac 360
 tctgtatgtg tggctattaa ttcattgatg cctagtgtt gactaatgag ctcatgcct 420
 aaattacatt catgctcaat gatcgatcat gattaattgg cgtatgtgta tcttgaacac 480
 atatagan 488

<210> 32971
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32971

<210> 32974
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32974

agatgaggaa gtgtagaagg gtgagaactc ctgcttctan tctttgacca canagnggta 60
 cctagagata tgctgcttga gatcaggaca ccttcgggac gtcaggtggg gtgctattgc 120
 ccaataccaa gcttgaccaa tctgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtaact aaacatgcga agctcctgca gtcaacagat aaaaggaaca aagaccacaa 240
 atcanggagg cttgtggtgg ctggccanct gtgaattatg tgtgatatat ggggtgtggc 300
 ctctggtaat cgattaccaa gggtaggtaa tcgattacaa ggcttnaaaa tgaagacagg 360
 aggctaagat ggtctctggt aatcgatta 389

<210> 32975
 <211> 254
 <212> DNA
 <213> Glycine max
 <400> 32975

gtccgtggcc aaatgatggt ggggatggtg gtaggcgtaa ttgttaacgg cggaggttaag 60
 gtactacaac ttcgatctag tttttttccg tataaaaactt acaaatacat aatccgtaaa 120
 ttatataaaa cttatggatt atcaatccgt caattatata taacctacgg attatcaatc 180
 tgtaaaaaga caatccatat gaattatgcg aatttttcagt aatccgtata gtccatacgg 240
 attctcaatc cgta 254

<210> 32976
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32976

aggatctttg ctantgcct taatatagct tgctgttaaa taaaggatt cagaacatat 60

tgtttttaaat gggtttcaag cctggaggct tcaaatttat attgaaagga cctctatcta 120
 taattttgga ctttatgaac aaaagaaaag agttgtgtac atatacctgt cctttcactg 180
 cctgtgttat ttaggatagg ctaccctcct ttggcgggtg agctttcaaa accctaaacc 240
 tcagttggct tctcaattgg acatgactca acggggatag ggaagcactg actcacggag 300
 aaggctgagc cactagagca cacgtcagca tcgagcaact gtaatcgata ctacagaggaa 360
 cacgtgtaac tggaactcgg a 381

<210> 32977
 <211> 384
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32977

accttctgag gttgccctat tgtgtgctgt tttttttttt agacaaattc ccttagcaat 60
 ccncaaatt aaggacttat cataactcga aacccttatg ctttcttaga accctanaac 120
 aacgtcaagg atatcaaat taagctcagg gggtttattca aacaaatcat tattactttt 180
 ggctcaacag gggtgcaagg gataaattca tcacagggtta gctttttggc tgagtggcta 240
 aaataaaaag aacatggcct tgatcatatc caccttatgt aaataatcta acagtctaag 300
 aatgatgcaa aattaataat ntataaacag acgttctctc ataattaagt tcacacagct 360
 caccgggaca agataaagtt atcg 384

<210> 32978
 <211> 108
 <212> DNA
 <213> Glycine max

 <400> 32978

atgtctaagc gagaccttac aactagggac agctagcagc caaccttaac actaccaact 60
 ctcaagaaaa ccactcatat tatccatcta acatcagaat tacaatac 108

<210> 32979
 <211> 143
 <212> DNA
 <213> Glycine max

 <400> 32979

ctataaaatg cattaaatat gataaaatgg gacttgtact cacatataat attagtttac 60
 aaagggtactc ttcaggaggt ttttgaaaat atattataca tttaatcatt aggggtcttac 120
 tatgtgctcc agtatcttta ttt 143

<210> 32980
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32980

agaaatacct tttnccttag tangcanncc naannanana ttacgcctgg cgccactaaa 60
 anagaaggag cactggagcg gagaatttct tttatggtn gccaancnggc aaatggatgg 120
 tgaaggaatg gcattgacca tatcaccggg agagtgtgaa ccttaaattt tgattgacac 180
 aactatcatt taagacctgg atctttggca tggaatcttc tgaaagagt gaactgaatt 240
 gtatgaaaat gaagatgatg aaggctatgt ttgattgtga tagcacttac caaaagctga 300
 cctgtcttga ataataatcc ctgcaccag tttgagctga atgaattatt gatgattgaa 360
 cctgacctat cagtgtatct ctactacctg attangtgn gagagctcat caaggagcgt 420
 ggtcaagcaa ttgtccaatt ggggagaata tcaggaaatt attcaaag 469

<210> 32981
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32981

tttggatgat accaaggatg atgacaaaaa gtcaaaagt caagaccact tcatgttaac 60
 aaatatgatg acttcaagat tcaaagaatg agttcaggat taaatgaaga gtacttcaag 120
 gttcanaagg aaatttgatt tcaagaatca aggagatttg atttcaagaa tcaagaatca 180
 agattcaaga ttcaagtccc aagaatcaag atcaagattc aagacttctc aatcaagata 240
 agtattaaat nttgttttca aaactgagta gcacattaat tgttctcaaa aaccctttac 300
 caaagagttg tactctctgg tatcgat 327

<210> 32982
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32982

agggcgctgn cccttgattc ctgancnaca ttntanatac tccgctccac aatcccantn 60
 ccttgaatag gccttctttt tttttttccc agtggagtcg ccaactgtcg caacgtgccc 120
 ttctcgggcg agcgaaggcg aggctcacgg gtgcgctttc caaggaggaa aggggtgcgga 180
 gtctccacca cgttatttgt gggaacgtcg gaaaacaaaa tgaaaccggc aanatgaaaa 240
 tctaagncgg gagttgtatt acgcttgaga agtattacac ctcttacttt tctcgaagac 300
 acagcctatt tttagaatgg ggaaatgtgt atctaacttt attcttttat ttttgaggcg 360
 acaaagcggg ctttgcctta ctaccctctc aagaggagtc gactactagt cttctatgct 420
 gatagtgate tttacttag 439

<210> 32983
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32983

cttggccgag aagaatggat atcctgcaat taattttcca tgtaaacag tctgaaagta 60
 ccaaataattt cctatcaata ttcagggttc aagacacata atcatggtac ctcaactact 120
 cagtgggtata tttagggttaa tccatgcaaa ggtgtccata tctaactaat aaatcaaaat 180
 gtgaaccaca attggcactc taataatggt tcagaaagtt tattggatct aagggatcta 240
 aggataagtt atgcattctt ttctttttca acacttgagg cttgtgaaat aataaatggt 300
 cacttctgct ttactctttc actnggtcat gtactatgca tttgctactt atttgtctac 360
 ttattggagc g 371

<210> 32984
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 32984
 ataaaactca gctagccaat ttcattgcat cctattatat tatgatcttt ncggagtttt 60
 ctggtaactg ggtaggttac ttcttcaagt aaggatatta cagtttgaag taggtgtaga 120
 tatgttttct tctactcctc tctttttatc tttttttatg tgtgcgtgcg tgagtgtgtg 180
 gcatgagatc ctctcatatg ttgtcactta tcattataga gaacggctgc tctagaaaga 240
 tcaattaggg agaaagttgg atggcagaaa ttcataaaaa gaggagtgcac cactactaagg 300
 aagctacagt accaggtttt tcttttagcc gaagtttgta attgccttgc aacattgtat 360
 tatgagactt gat 373

<210> 32985
 <211> 249
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32985

ctttttggcc acattttaag gagtccatta ttcacttaga atcaaaattt cagccaacaa 60
 ttcattcacc agaactcaaa ttcacaatag acacaatcat aaggaaacct aaacgttcaa 120
 gaaaaggatc acaatcaaag actctccaag aattctgcat gaacatgtta aggactaatt 180
 aacatgcaaa gatttgactc anataaaaata ataggctaaa agaatttcat acactcatga 240
 acaaatgag 249

<210> 32986
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32986

actatgtctc atttttcctt acgaacgttc tcttgcacaa gacattctat taactaagaa 60
 aaatgcaccc atacataatc aaggcagctt cattacctag attatttaca cgtacttcca 120
 aggtgtatct gttacttaca tcacacccat ctcccttggt aaattttacat acatgcatac 180
 tcaaagcatt ttgggggtacc aaaaattgca catgtgcaca tcttgggtatt tctaatacct 240
 atacatacgc aaacttcatg atgaatcttg actatcttca canaaagggtg ctacatttca 300

tgctcctttn tcaagttttg ctacttaaag ccgcatgcga attcagcata tttcctttgc 360
tga 363

<210> 32987
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32987

gctttcnagt ttctggtntc tgaacctgaa aacttgtgct ttcattcttc atctcttctc 60
cctttgccaa aaataattcg ccaaggacta accgcctgaa ttctttttgt gtctctcttc 120
tcccttttcc aaaagaacan aggactaacg gcttgaattc ttttgtgtct cccttctccc 180
ttgtcaaaga attcaaaacg acacagtctg agaattcttt tgattcttcc ctttcccaaa 240
ttcaaaagtg ttcaaaggac taaccgcctg agaattatct tgtatcccca ttcacaaagt 300
atcaaagggt taacagcctg agatctttgt cttaacacat tggaggctac atcctttgtg 360
gtacaagtag aggttacatc tactngtggt tgactgacaa caagacaggg tacatctctt 420
gaggatcatt c 431

<210> 32988
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32988

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ccatgatatc accatattct taaggatatt tggagctctg gaattgtttt gcgaataagt 120
gtggagggtt ttgtttcatt ggataacatg tattgttggt catgcttcat gatatatntt 180
gagccatact tgatgcacat tgcattttgg ttaaatgttg ggcgtgctga atatgatgct 240
gtttctcana ggctacaaaa aaaatcgaaa aaaaaacaaa agcagtaagt tgagtgaata 300
gatcttaatg acacaagatg atagactctg gttcactctt atgt 344

<210> 32989
<211> 286
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 32989

cgtaacgttt ccgtaagtaa ttacacgaag attctcgaca gttcttcaag atccatcggt 60
 tgttcttcgt tntcttcagt cttcaacggg taagtacctc aaaccaagct tttcaattca 120
 ttatatgtac ccgtgggtgg ccacattgtg tttcatgtat tntcattttc gttttcattt 180
 actttntata cccctttttg acgtgcttaa gccatttatt taagtcattt ctcacctaata 240
 ctaaaaataa aataaatttc caccgatcgt ttgaattgat aatccg 286

<210> 32990
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32990

ttttttgtta ggatgcttca atggaggaaa agaaagaggg agagaaagat agagggggga 60
 gcacgaaatt gaaggaagaa aaaggagag aagttgaact ctgagttgtg tctcacaaga 120
 ctatcattca tcanagttac aacaagtgtt tcacatgctt ttatttatag actaggtage 180
 ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctctgaga aaacttcctt 240
 gagaagctag agcttatcta cacacacccc tctcataact aagcccacct tcttgagaaa 300
 cttccttaag aagattccta aagaagttag agcttagcta cacatacctc tcctatagct 360
 aagctcacct ccttgagatg a 381

<210> 32991
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32991

ctgttngatg tgtggaggcc ttgttagtat ctcatgttaa atagggacac tatgcacaat 60
 gttgttaata atcccatcta catcttttagt tcctattcct aacatatacg tctntatacg 120
 cacttccatg agatgttatn gctctanagg ttatcttcaa gaggtacata atgtttattt 180
 ctaaaatcat tgtcgaaaag gaatgtatga aacgttnttg ttccaacata ngttaatatg 240

gcttagcgta tggtttcggt ctcttctagt tcccgtgttg gtggtcgttc ttcgtctttt 300
tattcttgat ctttaagttt gatcttttaa ttattgccat ctgttcata ttncggttat 360
gtnggtttta cttttgtgat ntacataaat cttgctggta tgtgt 405

<210> 32992
<211> 75
<212> DNA
<213> Glycine max

<400> 32992

tcatgatgac gattcaagct gatgcaagca gtcttgatgt ttacgtatg gatgacacac 60
tgctctaaga gtgat 75

<210> 32993
<211> 113
<212> DNA
<213> Glycine max

<400> 32993

ttgttggttt cttgacaata ccaaacaaaa ctgggaatga ttgagagtct tcatattgtt 60
ccggtaaggc acaccgtcct ctactacttc aactactgtt agatgccact tgt 113

<210> 32994
<211> 280
<212> DNA
<213> Glycine max

<400> 32994

accagcggga cattactctg agggcataaa tggcatataa cctcctccca tgaatgcaga 60
catcaatgta aattgagagc aagcttatgc gcatatcttc ttacaaacgt tctcctgcac 120
aagacattct attaaccgaa aaaatgcacc catatacaat caaggcagct gcgtcaccta 180
gaatatatac acgtacttcc aaggtgtatg tggtacttac atcacacaca tgctcctggc 240
taaattcaca tacatgcata ctctaagcat tttgggtacc 280

<210> 32995
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32995

atctactggn ttgattgttc atcgaacctg ataaaagcac ggggcaactg ctggagcgta 60
taaaggggac accaaaatgc tctttttatt agccgcaacc gggggggggg gaggagcttc 120
ggcacactct cntcaccacc ctaacgaaat tgaccatgta gtgcccacac agactcttgc 180
acacccacat ctatccggac tgggacaaat gaaaagctcc cactggcgcg gaaatcaaac 240
aaacgcgaac gtaaggagca tttgagcccg aaaagcactc tatgttgaag aataacgcaa 300
attagaagcg caacggcggc atcacacaga ccgggttgat tcgtcataaa gtgaggggaa 360
acaaccaaca atctgtgcga ataacagtgg gaatggtaaa gtacaggata tgatgccttt 420
ccaacctcct ggagaaccgg cgccagagt tcgccgcgca gatacacaga gacgaccgca 480
tcgcg 485

<210> 32996
<211> 252
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32996

agcttgcana atttatcact ctatatngca aacaggttca ccacgagaac cttgagccta 60
taanttttgc aagatagaac aaccctaata acccatctac aaactcctcc accagcaaaa 120
cgattccaca ttntccatct cccctttttt atcacgacat caaagaaaat ctaagcgaag 180
aagagaaaca agaaaggcca caaaacaaac ttataagtcg aagcgagacc ttggtataac 240
agagctattc at 252

<210> 32997
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32997

gggnncgaga cttagactat gcaaccgccc naancgagaa gatccnctt ttttttttag 60
acaggaggtg gtctaatacac ctggaagcgc agagtgtgtt ttcctagctc tatctcttcc 120

ttatcctggtt acgatttgag attcgatgct ccaaaccccc aagtagctat attctcaagc 180
 ccgttaggac ctacgcttgc caaagattat aaacatccgg cctcaggacc agatccccaa 240
 ctaactctgc ctctctcacg ggcactatgg cctatagtgg agatctgcaa tttgcctttg 300
 aaagctgaga tagacagc 318

<210> 32998
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32998

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 agtncgacga gaagggttta ttaaaagttc tctctacaga gatatatcta gagcacacac 120
 aatacaccat acaaggcact tagagtagcg tgaaagtata catctcatal ctcttcaact 180
 tccttagaga ttgtcccaat gtggtatgta ttgtgctccc tattatatac taggctccca 240
 taagaccttt ggctcaaaac gttatccata ttctctacat ttttaaccggg ttattataaa 300
 acatcttatg gcttgatatg gtcacattgg tcaggcttga aatctatctt tatagcggag 360
 atgtattctc agaaactaag accttttgc 389

<210> 32999
 <211> 227
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32999

atagtcaccc tcgatacaag accgagatga ctatagagta gtattccctc atatttgatc 60
 tccccatata ctacaactta gtatatgtgt tattatcatt tcgaaatggt gtgacatgtg 120
 tttcaataaa tccaacgaat aaaaacacaa taaatggtaa aacaaggatt ctttgataaa 180
 ttatnttcac ctcacacgta gatttataac atgttcttag ttaagta 227

<210> 33000
 <211> 408
 <212> DNA
 <213> Glycine max

[illegible]

<210>	33001
<211>	498
<212>	DNA
<213>	Glycine max

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nggtacatag	aacacaattg	ncttataana	aacggacccg	gggaggggtt	aggttgggcc	120
ccttgtgaac	ccacacaaac	attggccttt	cattgcgcaa	cctggaacca	atggaccacc	180
cggagcttaa	ggctgcaaga	attacaaaaa	aacggcccga	ccctagcggg	gaaatccacc	240
ccagcncaag	cattatgacc	cttgcagcca	cagatagcac	cttgagtgga	ggatcaacct	300
aacctcagaa	tgcccancct	tcacaacaac	caacgcaggc	tgctccttct	tacaaaaggc	360
tgtggccgag	cgaacataca	ttcttaccaa	tccacaacag	aacaaccag	aacaggcaca	420
gtgaggcctc	cacaccttcc	tcgagacntt	gagagcaatg	atatgcgaac	atcagttcac	480
aggaacagag	cttatcag					498

<210>	33002
<211>	559
<212>	DNA
<213>	Glycine max

nngggggcgc gccgatttta tgatacctaa gcattgcata nccgttanen tannnangct 60

ncnctttcan canagagaag agaaagatga aggatcgaag attttcattt agtgnggatg 120
tctcctccac ctctagaacc tcacaatcac tcataacctc atctcaagct cttaggacga 180
cttccctctt cgagcttctg tctctgaang gtcttcgtac agcaaaaatc tctcanactc 240
tctagaactt ggacctttct ctctctagaa atctctagac atgtagaagc ttcaaaanag 300
gccaaacctc ccatccanna tctgatttca cgcttaaata ngtggttctg tttgtgcttg 360
cgcgcttatg cgcactctga actgcttagc gcgcattact gaatntcngc ttagcatgcg 420
tcttctcgct cagcggatgg actcangtgg tgcgctcagc nggatgaacc ctgctcagc 480
gaacatgcac atctcatcct tcttncagct ctctcttgcg ctcaccagaa gtgtgcgcta 540
gtggatgctc gctanctag 559

<210> 33003
<211> 368
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33003

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gtcccttaag aacaaagttt aaccaagttt tcaagttata cttctattgt atctattaag 120
cacataaaat gaatgaccaa gaaagtcaaa ttacttgttt ttgcatctgc aaccatcgcg 180
gtccataata atcatattgt tgtccatagc ccgtatgtgc tcaaggcaat tacagaacac 240
aacattgata attcaaccaa ctttctgta caaaagcaat ttgaattggt acataagcaa 300
ggcaatatct aaacctacct ctctgggcac aatattaaca aaatcaattc accactataa 360
tattcatc 368

<210> 33004
<211> 367
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33004

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aaacacgagg gccatttgag gtcaacttaa ctgggttcca cctcacctcc catcagacac 120

tacctaagag atcatatcac caagcctctc catacatgat acaaataaat atgggaacaa 180
 tgggtctccc tgacgaagcc ctctcacagg aataaaaacta ttttttggtc tacctccatt 240
 ccacatgata gaaatagaag tagatgacag agcatgtata atcacagaca taatgggtatt 300
 atgaaaataa caaaaatnaa aaagagtttc ccaccaacaa aatcctagtt cacacgatca 360
 tatgcct 367

<210> 33005
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33005

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 nonnnngnncg ggaggggtgtg gtgttgataa catcccaccc cgctctccaa acacaaaacta 120
 tgataactgt tttgtagaca tccggcctat ttaccagtgc tccacacagc ggactgatg 180
 gacgccagta ggctcgagtt acttcttcta tgcttacacc cctgntataa gaacatacta 240
 actacgattt ccncaccac tgccggatgt cctcgaaggc aatgacgatt acaaactctg 300
 tgtcttctca cctacatcga tgtacactaa acccgtgatg tggacgctat tactccaaaa 360
 tcataccttc gccgattcta tgtgaataca gctctagcga ctttctagtc tcatcaattc 420
 ggctaggggc agcgaaagac tcacttacca tgggtgggac taatacatct ttagaccccg 480
 cgctagctac ctgtcg 496

<210> 33006
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 33006

ataataatag tgggtgtagc ggtattttat cacaccttat ctcatccaga gtttatactg 60
 tctagactat atcatattca aatcttattg cgtccagatc gtatgtcgtc acgtcttattc 120
 ttatcttgtc cagacgttat gtgatctggc tcataagtct ggacttaaaa tagatttgta 180
 agtattgggg ctgaagacct atataacagc accaatgtga taggctaggg aggttttgtc 240

cgagaggag aaggattgct gggttgtagg aattcagcgt atagtactgt ccatgcacac 300
 tgctcatgga gagggaaatc gtcgttgcca acagcttaac ccataactgtc gaaatgatgt 360
 cgggtgatatg cgtaggggtac ttcgcgcgta acgacctgaa tcataagata tgggggtcgtc 420
 atcc 424

<210> 33007
 <211> 527
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33007

nagggaggca gatgactagg nccatgcanc ancgcgacac ntnaatnnac tcaacctngg 60
 cacgatntat gngaagcaca gtgactggag catattttgt tatgaatcat ccaacataat 120
 agggagcgaa ttcatagtga cccgttagta caaaacgcga gatgactatc tagaaatatt 180
 cactcatatt tgaggtcgac atctccaaca actctagata gtgggttatga gaattctcag 240
 gagaatggag cttagagcca tgatgaactt ccaacagaat gcgaagcctc aacagatcat 300
 gcgctcacca ctatattggt gatatctcaa aaggagcaac aactacatag tctcttacag 360
 attatgcacc aacacgcttt cttgccatga tggagcctaa atttatagaa cccttggagt 420
 gaaactgaac cttgccctcc ataaaacggg acaagtcgaa gaggcaacgt ggagcccgat 480
 aaaaccttta taatccgtgc tcgaacaaag gggttttaaa ataaten 527

<210> 33008
 <211> 169
 <212> DNA
 <213> Glycine max
 <400> 33008

gtcatagcat gaaccacgg gcaaagcatt tatgcccggg tggcccctac aagatttacg 60
 gtagccacat cgtaaagctc tacaccacaa agaatacaag ctctttggag tcccagatct 120
 accccgacaa ctcttaacgc ccaccagact tcaccccaaa ttctacccc 169

<210> 33009
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33009

 gccgttgat ctagtactnn ctgannaacc aacnnaaac gaaccnagat tgaagagacg 60
 gacagactta gattctatgt ttttcctccg cggacgcggg agccacgtgg accagtgtgt 120
 aacttcttat ctctctccct aattagttac ggggcaacaa ccgcgtaaga catctactgt 180
 tgtagecgca tctatctgcg agcggatctt gcgttgctgt tgatcactcc catcagcaca 240
 tgagcaatac cacatacaac cattctaaca atgagctgag tctccaaaag acggatacca 300
 caacgcgtcg tcttcggcct acaatactac ggctgccgcc accccctatg agctccacag 360
 gacctattgt gacggcaatg gcagtctcct ccaatcggtc ccctttcaca agcccttttg 420
 caaacgagca taaccttta ctcgatgatct cacagtaaca ggtcttgtaa tactcccacc 480
 gcaactcagc ctgaccc 497

<210> 33010
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33010

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 gataggttgg tatgtttata taataggctt catgaacgtc aagaaaataa tgtatataat 120
 gatacttgaa tttcatntt gtctactaaa aagatcataa atgggtcttt ntgaacatca 180
 ngaaaataag ttacccttat taagaggttt ttcttttgct ataacatcca agaanttaat 240
 gcaaattgag gataaaagat agtgacgaaa caagtcatga gacatanaag catcaagatc 300
 tcagtcttag ccggatgatg atg 323

<210> 33011
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33011

 acttgggttt gccttgtttt atgnacnntc aganannngg natagataca cattttntt 60

gcccaccccc cgcggggttta aacaaaaccc ccccccccca cnnncncacc ccaccaaaca 120
 caaaaacaac acacacacaa gaacaccacg aaaagggcgat ttaacggggg atggtgtaat 180
 aaaagaggag ggggtgagga acatgtggag ctggggtaat gtgcgaggag atattacaag 240
 tgcgggtatg accagatact aagatttaaa atatatatcg ggggtttagg tggaccggta 300
 aacggataag tggagattca agaatggggg gg 332

<210> 33012
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33012

agcttctccc cctattttct atatataggg ggagaagtga agtagagaag gggttcagcc 60
 ccttaggcac ttctctctct ttcgaatttg cttagaaaaa ttgtttccgt gaagaanatc 120
 caagtcgagg cgcttccgta acgtttccgt aacgtttccg tgagtgattt cgtgaagggtt 180
 ttcgaccgtt cttcgacgtt cttcattcgt tcttcacgt tcttcagtct tcaacgggta 240
 agtacctcaa accaagcttt ttaattcatt ctatgtaccc gtgggtgggtcc acattctgggt 300
 tcatgggtatt tttattctcg tntcatttac tttttataacc cccttttgac gtgcttaagc 360
 catttatnta agtcatttct cg 382

<210> 33013
 <211> 556
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33013

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 accgnnngac gcgnataagt ggactgtgtg gcaagtcanc aaataatgng ttatactcgc 120
 gaatgggacg gacaacatgg aagggtggat gattcgtcaa caagaagcaa atcacaccaa 180
 aggcctcatt ttcgcttcaa gtactaaata ctaggattag cgttcacaca accagagacc 240
 ttgactccaa aactctctta aagatcaacc ctctgcctca caatgaaatg tgctctagtc 300
 attcacagca cgtgtatgcg atcaccaata catgctatcg attacacatg gtttgaaagt 360

gtgcaactcg atacacatca tatgtactcg actacaagag actctgaaac gtggtattca 420
 attctaataga atgtcacact gtcaagaaaa caactgtgta tcgatacact attctgtatc 480
 gataccaaga gattttatga tatcgacccg cacatcttca ttaattggat gcctcaagct 540
 ataaagtact ggccan 556

<210> 33014
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33014

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 tgcgcgcata atcccaccat ccgctgttgc ccacctccat ctgagctcac gtactcccac 120
 gtagcccata ttcttatttc tctcaacacc ggggtcccat caatcctccc aagtttctcc 180
 aacatcaaag taatacaaca ttcacacagc acatgctatc gcagccaagc ataacagggc 240
 aaaggcagaa tactctgccc aataacacca accaaaatca cagcttttct cacttaaaga 300
 cccagtaac aatttcttcg atccaattcg ttaaccgttg gatcgactcc aaaattgtat 360
 tggaagtcta taatgtatac gcctacatt 389

<210> 33015
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33015

cccgttgatt cgtagtaact gaacatccaa cngactaaaa ctgagttgat tatggagagt 60
 tgatttcttt tgtttcacag agcggcgcgt gtacactaac tatcaaactc ttgccttcgc 120
 aaggaattgg ccccaacgag cttgccttca aagagttcaa gaatggacaa gtaaccact 180
 gaactagtcc gctcccgatt atgaccgtac cgctcacgag cgctgacacc accactcttc 240
 aagcctcctg gatggacttt ctctgggacg acactccgcg ttaggacgag agttactgtt 300
 tccagaggaa taggcgccga cggggcctac tgggtcttct ggcattttat ccatttaggc 360
 ttatttatcc atgttgccat caagaggcgc cgcatgaatc cggaaggcgc tgctccttat 420

cctccatccc actctgatcc

440

<210> 33016
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33016

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naggctagtt catatTTTTct atgggtgaagt gtcctcacat aatgggacga gttgtgatgc 120
tacttctggn ggaaaccttc actactggaa aaaggggaatt ctatgtcggg tctacaacac 180
tttntaagac ggttttgaac tgtctttggt accaacgtcg tagaaagtca aaactttcta 240
agacgaatTT ctgaaaaaaaa taactgtctt agaatgtatt ttttttaaaa aaaatanaat 300
aaaaattgag aattctaaga tgattatctg gaaaaccatc ttagaatgtc tacaatctaa 360
gaaatgtttc t 371

<210> 33017
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33017

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aaaatttttt acccataagc ttaccacgog cgtgataaat aaaattcaat tttaggtcca 120
atcctttacc acaaccaccg attaaaaaaaa cnttgattct tggagaatga cccaaacggg 180
attggtgcgt actacattat aaaacaactt tgggggtcac gagttggtgg atctgacatt 240
ccacaccaaa ttttcctcca aatagctgat acgtaatctt ctcttttgaa catgttggtg 300
tgtgtgttga cactctgaac taagcaccca acaccatata tatacagaag agtgaagaga 360
aatcagatat tttgtagaga gaaaaaaata aataacaggg gggttttctt ctttcttctt 420
ggtcctttca gattggtccc acaacacttt caggaagcaa n 461

<210> 33018
<211> 400
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33018

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gaccattggt cttccttccc gcaatgcttc ttttcatgtc tgcctgagtg ggcttataacc 120

ctaaaccata cttccacaga tatccttgag tatttatcag gctagtaatg ccgccgttgt 180

tgtttcttaa acccatcccg gggttcaaaac cggttcccaa cataactcgg gccatcatta 240

ccactgcac ggacagacaa agttgcccac agaggaggag cacggaggag atgctgacca 300

cctcacaaga ctggaaagca gtttctaacg attcttctgc ggcttccaca taaggcatgg 360

aggatgggca gcttaccaag atatcttact cgcttgacac 400

<210> 33019

<211> 488

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33019

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ctaactaga atantattat cttancgctc ttaaccnang gatttagaag agcttatggg 120

ctgagtgcaa cttgaaatcg tgcaaccac aagtcacccc taccgcccac catggcatcc 180

cccttttggg ctccagacag gctgatgctt aggtggccat tggacccttt ataccacttg 240

aactaaacct actaaagccc tttagttgat aacgcacaac atatatttgt cactcaacgt 300

acaatgattg agccatatat aactactcac actctaaaat gaacatagtg tgtcattaat 360

cctctcattt ggcatatata actacaactt gactgtctct tgaactgggc tcgtttctat 420

agatgacaca cttgtgagag ctnccttgctt tcttgtctag cctgtgaaga ctacgcctta 480

gtgatctt 488

<210> 33020

<211> 274

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33020

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 ttagccccac taatcctaca agagagaata tagttctttt tttaaaaaaa cacacaatta 120
 ttttcttcct tggaagcctc tttggatctg tgcacacctc agttgcttat cagttaccaa 180
 atgagcaatg acaataactc attgttgcaa aaattgccaa aacctctatc ctctaagtga 240
 attacaagac gcatgagtca aacttcgcta ctcg 274

<210> 33021
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33021

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 tgcaactctt gatagacgtc tgatagggga gaatgaacaa caagctatta agtggctact 120
 tccttcaaga tcattgcctt cttttattcc ttttcaaaat gtntctgttg aaccaaactt 180
 gaacgtctga ttctacccta gtttcagagg acatcacatc ttggaatgga aaacctgcaa 240
 caaagtctga agaagacaat ggatgttggg actcaagttc ttgatcctaa gatgaanaag 300
 ctcanactaa agaagctaaa tctacttaat ctct 334

<210> 33022
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33022

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 tgngataaag gtagtggttc catgttttca aagcccgtag taatgcatac aactccta 120
 cataagttga atagttaagg gtaggaccac ttagcttttc actaaaataa gcaattggat 180
 ggccttcttg catcaacaca gcccgaatcc caacatttga agcatcacac tcaatttcaa 240
 aagattattg aaagtttggc aacgcgagta tggnggcatt agttagctnt tgcttaagaa 300
 cattgaaagc ttcttcttgc ttctcttccc atttgaaacc aacatttttc ttgagcactt 360
 c 361

[illegible]

cgcgcgcccta	aagaagggaa	ttgnngcang	natcccctgc	gaanntcaca	tnnacnnaac	60
nnnganctac	ttattgcttt	tgcacatggc	cagaanataa	gtctcatnca	tttatgacgn	120
aactcctggg	gtgtactcat	ctatacaagc	aagtctgcgt	atgcatcaag	tccttgactn	180
tcaagacact	gcctgagctt	caacaatgct	cggctctcca	actgtcggac	nactctcctt	240
tgggtcaaacc	aaacaccttg	ccaatgtctg	acaacgtttt	ctcctcgcca	tcctcaatac	300
canatcttag	ccttgatatg	cccctttctt	ttgggcttaa	gatatttaga	gggtgtgcac	360
atgcatcctc	attagctgtg	gtgagaccag	tcacatctgg	gatctcaant	tgctgagtct	420
gcagtaatct	cctgcaattg	gataacaatg	tgatcaatct	gcgacattca	taatanntat	480
gttgctcaca	nanggcagaa	gggtctattc	tgaccatacc	caacattctc	cacattagga	540
gaagaccacg	ctacagaaat	tn				562

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<223>      unsure at all n locations
<400>      33024
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agcttggtggt	attctatntt	cctctcacc	tccattctta	caaaaagctt	ttcaagagac	60
ctactattgg	tgactgtntt	tcaagagaag	gtcttcttgg	ttgaacactg	aacacaaggg	120
accaacattc	cttggattca	ttgtaagaag	cgggatttgc	ttcttgggtg	atcactggac	180
acanaagacc	aacgtctttt	gggttcattg	caagaagtgg	gtacaacttc	ttggttggtta	240
tcactagaca	caagagacca	acgttccttt	gggttcattg	caagaa		286

13753

<223> unsure at all n locations
 <400> 33025

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 atctgcttta tcttagtgag agtgattctc ctanattctt gagtgattca agaacacctc 120
 ggctgtatca aaggactttc acaacctttg tgtgttgccc tcgctggaaa gagtgattct 180
 ttccttctct tcatcatcac cttgttctt tcacaccaca attccagaaa atccacctct 240
 gccagaatt atctcgtggc cataactccc attttacgca ctcaaattaa gtgattcttg 300
 agcctaa 307

<210> 33026
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33026

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 ggtacgtaat atgaagaatg ctttcataat tcgattaagt ggacttgcac gtttggttgt 120
 ttgttttgct ttttaattcc agtcacaatt agcggctctt taatcttgaa tatcttatat 180
 tgaatgaata gcttgctttg taaaatcaca gataaaatan agggtaaatt tctggattgg 240
 cctcgacgct tccacataat atttgaata gctcgaggac ttctgtatct tcatcaagat 300
 tctcgattaa ggattatcca tagagatct 329

<210> 33027
 <211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33027

gagagagacc aatcatgagc attaatatgt tcttgaaata ggagttagct gtttgcctca 60
 agtccaaaag aaacttgtct cagcgtctat gcganacana gaccaacatg ttagccatcg 120
 tcagncagta ccaagaagaa ctaaattctag ccacgaccca tgagcataaa gtggcgaaatg 180
 agtatgccg agtatacgtg gaaaaagagg ctagaggaag ggtgatcgac tcattacatc 240

gagaggcgac aatatggatg gaccgattng ctcttacttt gaacgggagt caagaa 296

<210> 33028
<211> 323
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33028

agctntaacc ttatcgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagctgcc gatgatccca ttactgcttc ccctaagctc 120
tetgtccttt cttcacaccg catcacatgc cttgtgaact ccttagagta ccctcgcatt 180
ggggttactg aaaccccggtg cgatgaaagg cgtgatgctt ttgtctgatg gcactcctct 240
catggggtag ccaagctgtc ttatggcgag gacgggatta taattaatac aaccncttgt 300
tccatcaagg gaacatttgg aca 323

<210> 33029
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33029

agcacgtgaa gacatggcgc ttagtgcaag ggttgcacgt agncggtgta aaacctaata 60
attattctaa gtcttttctg tccatctttt cacctaagct taaaaagccc cttgtttcac 120
tactaaacga actgaaaaat taatcataat cataagcaac tatectaatt acatgcaaga 180
gatacaaaat gacaaagaga anaggggaaag actagttggg ttgcctccca ataagcgctc 240
ttttaatgtc attagcttga cgcatcatcc tggtatcctg tgtccaataa ggttccaact 300
tccagaacct tcttctntag tctttttttc ttcacacat tgaccttcaa acaaaca 357

<210> 33030
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33030

agcggcnnc aacnncagaa gccgagcgtt gcnagnccga taganañcca nnanttacan 60

annacgctg gngngtaaac tgggctgaag ttcatttttag ctttaactgc agaactgcag 120
 ggtagtagga attgactgta tgcactgcaa tatgtctgta tttggtacta ataaactgag 180
 atctaacagg tgtatattaa acagaaaacc ttctcgaggt atgcatcaat tgtataacat 240
 ttgacagaat agcttctctc gatgacactt aaaaacctat tttaatatat acatgacctc 300
 tgagtctatt gcataagtac ttctgtcatt cttagagcac taggtccaca cgaatgcat 360
 aagataatgt cgtcgaaaga gatatttgta agaatcaagg atagtttact ttgtataaag 420
 gcagggttaga ttaacatcaa atatggcctt ctagaaaatt aactggga 468

<210> 33031
 <211> 206
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33031

taatngagat agtgctatca agatcacttt cgtctttgtn tttcaagcac aatagntggt 60
 tgctgcttat ctactatcct atcatgagtc tattcacatt cttttacatg tctgttcaag 120
 ttgttggttc catatttatt acttttgcatt ttataacctt ggtcacaatg cttatatata 180
 gcaacatccc cttccctatt aaaatg 206

<210> 33032
 <211> 287
 <212> DNA
 <213> Glycine max
 <400> 33032

agcttgaaca aattctcata aattaaaatt gctttgggct cagtgagact gactcgcttg 60
 cccaggctta ttcaacctac aaaggctggg tggcttaaag agactaactc gcttagccac 120
 caacaaaaga caaaaaacat cttagactgt ggcctaagaa acacaacgcg ctaagtgcgg 180
 catgctgact tagcgagttc atatgacact taaacaaaac aggaaattta aactctcgct 240
 atgccaagg tgcaatggct tagcgagttc atacaaacat tcatata 287

<210> 33033
 <211> 261
 <212> DNA

<213> Glycine max

<400> 33033

aaatcgcgca taaatacacc atccccctgtt gccacactcc aactgagctc acgtactccc 60
atgtagccca tatectctgt tttctcaaca cggggtcccc atcaactctc ccaagcttcc 120
ccaacatcca tgtaattcaa cattcaaaca acacatacta ccacagccaa gataacaggg 180
caaaggcaga aaactgtgcc caaaacacca accaaaatca cggttttttc tcaacttaaag 240
acccccgtaa cattgccttc g 261

<210> 33034

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33034

agcttataaa atgttccact ttctaatacat gtgaaggcca aattattatc aaacaagggtg 60
ggaaaacaat tatcaataac aattatcaaa tgtcacagca tatttgtttt tgacatgaaa 120
gtacaataag catggtgaga tccaactaga atagtataaa ggcattgagag tttcatcact 180
tgtacatgac atgtaagggg atgagatggt catgtgcagt gtattgttgc aatgaanatc 240
aatatttgaa ttattatggt gaaaatcact gtcaaactct ctataatagg acaacattga 300
atgagtcaat tattttaaata gaaaaaaaag cttgaagatg ttttaactta ttttacaagt 360
ctcttgatac cttatctaata agctatgccca tcttataaaa gatcactttg atcatgtcag 420
gccaatta 428

<210> 33035

<211> 519

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33035

nagcggcagc tgtacaatan gcaancctaa ttcatnennn cgggacttnn tggangcaaa 60
tggagaattt tttttcttna atgccnccct cagggaagag ggcgttatgc cttctccata 120
aaccaaacat ttatgtaaat ttatagcana ctcatgcgca tactttctta cgaacattca 180

ctcgcacaag atatttttct aattaagaga aacgcgcccc cgcacaatca aagcgccttc 240
 gttacctaga acacttatat gtaccttcaa ggtgggtttg cgacctacat cacatgcac 300
 ttctttgcgt aattataata catgcgtact cgaagcgctt tgggtaccaa caaatggcta 360
 cgcgcgccatt ctgggagttt catacccata ctcacacaac acttttgatg aatctcgtgt 420
 gccaccccaa caaaggggcg gcactatatg cgcttaatac agggttttgt tctataacc 480
 gatggcgaac ctgttatatt tctgttagc aaactgcgt 519

<210> 33036
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33036

gagagtgatt catgaccctt gacatnaccn cnagccaaca ccgnggccca gagagggaaa 60
 cttgtttttt tttaccaaac caggtgttta taagaaaaat atccttcgca acactttcta 120
 aacgaggatg gggaattgtc caccaaaatg ataggtaatg tttaatgaac ttaacaacc 180
 ttttctttaa aacaacgtct tcaataaact tgggcaatca gactaaaaac agggaataac 240
 ccatctagaa ggatctgagc tctacactgc aaatccgccg gtatcttggg ccttccaaga 300
 agagttctgc ctacttacat tattacgtag ggctgaaaa acaggacaaa cacggggcctt 360
 ggctcttaac agccccaatc caaatataac gtaatgaacc aagaaccctg gtgctccacc 420
 ccactttgta ttcaaaagca acg 443

<210> 33037
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33037

agcttgctac tactatcttt tcttttttga ngatgacaac ttctgagatc gagagacaca 60
 cacacacaca cacttgttcc tagccgatca ctcacataaa tttccattct cccctttgt 120
 ttttgaatgt atgcttctct taaaattaag ttgattactc atgtgagttc ttgatttaac 180
 ccccatctct ctcctctttt ggcatacaaa aaaagccaaa gtgcgtaaca agtataagac 240

aatcatacac tattaatcat tcacaaggca tgcattgaag aatataaacc aatcatgaag 300
 caagaaacat gactagatca gatataattaa acaaatacaca tagtcatcta acataattca 360
 taattgttca aacacac 377

<210> 33038
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33038

gggagatgga agcttgagat cntcatnatc acacnngacg caacggganc atacatgtgg 60
 tacagggtttt ggtgtcnatt gtcacacaag ttggcactgc catggcgcat aaccacatc 120
 cctgtggcca cttcaactga actacgtact ccaagtaccc aatatctcgt ttctcttaac 180
 accggngtcc ccaattaatc cctcttcaag ccttgccaca acattgcaag ccagaacaaa 240
 ccattcanac aggcacaatg ctatcacagc caagccaaac agagcaaagg cagaaaactc 300
 tgggtcanaca ccaaccagaa tcacagctgt ttctcgctta aagaccccag taacaattcc 360
 tttcgatcca ttcgttaacc gttggatcga ctcgaaaatt taatggaagg ctcttgatca 420
 taagcctaca ttgtgaccgg tgggatctac tagcaaacat tcagaactca ttctgcacta 480
 gactttcaca gccaaccaac acaagcattt tcttgacttg g 521

<210> 33039
 <211> 500
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33039

gnncctatt aaccgagtca nganctnctg nnnatctgac acacnnangc caagcgcgac 60
 naggnnnagn aaggagaagc caatttactt tnnngacttt ttgacacgcc ggcataaggg 120
 caggaggggnn ttctccatct catatcattc gcgcacacgc ctcatcatga gtacgtcgaa 180
 agacaaattt ctcaatttat caaacgttcg tacgaaggct acactcttct atgtaaaata 240
 tctccacett atcataatgc aactcactac gagtctgagg tagcgtagta taccgttttt 300
 ggcacaacat cagccccctt ggttgcgaaa cacactctgt ctgaatcaag ctacctatta 360

cgaatcctgt tttgtcgcga cgtgtgaata ataaacaacg ctctctcttg cctatcataa 420
 tggatcagac tccttggcgc tacttcaactg ctttgtggaa cttgcccga tggccctggg 480
 ttagaaacat ttttgggttac 500

<210> 33040
 <211> 336
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33040

ctcacagnnc tttagattgt gggagcgaat ccaatccttg tgttcggact ctcagccact 60
 tatgatagcc gccgatgatc ccattactgc ttcccctaag ctctctatcc tttcttcacg 120
 ccgcatccca tgccttgcca actccttgga gtaccctcgc gttgtggtca ctgaaacctc 180
 gtgcgatgaa aggcgtgatg ctttcatctg atggtactcc tctcatggga cagcccaact 240
 gtcttatggc gaggactgga ttataattaa tacaaccctt tgttccatca aaggagcatt 300
 aggacatact tcgcatgaag atagaatact gattct 336

<210> 33041
 <211> 210
 <212> DNA
 <213> Glycine max
 <400> 33041

attatatgcc ctaatctgac tccgttgatt agtatgacaa tttgaattct ggagagctgc 60
 cgttgtgcaa tttcgagcgt cttgatatat tatgcgcctg aattggactc tcgtgtcata 120
 agtatgacca tttcattttc tcgagacctt ccgttggtca atttcaagct tctcgatata 180
 ttatgcacct gaatcgtgac ttcgtgtgac 210

<210> 33042
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33042

agcttctccc tcttttccaa taaatanggg gaggagggca gaacaaanag gttcaaccct 60

cctgatagct gagaatcact tgaaattagt gagaaaaatt gtttccgtga agaaaatcca 120
 agtcgaggtg cttcctttcg taacgcttcc gagacgtttc cgtgggtgat ttcataaga 180
 ttttccgccg ttcttcacgc ttcttcgttc attcttcacg gntcttcaac cactaagttc 240
 ctgaaatcga acttttcaat gcattctatg tacccttagt gggccccact tgtttcgcat 300
 gctttttattc tcatttcatt tactttctgg accccctggt gatgtgctgt aataatgtat 360
 ataaggcatt ntctcgcta atcagaaaat aaaatagaat tctaccgatc at 412

<210> 33043
 <211> 199
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33043

cccgcgggtc tctcctacac naaccgcgaa ggggtatagt tcccgaaggg gggtaagcaa 60
 aatttgaaac ccctcgtttc aggcgtggaa ataccgcgac gctttggggg gttcgggggg 120
 tgattcggag atcatctgcg gggacctgct ggggttcgaa acgacctggc gggcctcaag 180
 gcctgcccaa gggtggaac 199

<210> 33044
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33044

agcttaatgc tgtatggttt gtaaacaac ataaggcgag gcttggtgtg aagggatatg 60
 cgcagatggt cggggtagac ttctcagaaa ctntntcttc gggttccagg ttggatacca 120
 taaggctggt gttagctctt gctgcacaaa aagggtggat tatacatcac atggatgtta 180
 aatcagcctc tttgaatggg cacttggaag aagaaaattt tgtagagcag cttgaacgat 240
 ttgtagttca tggacaggag gagaaagtct atcggctgaa aaaggccttg tatggcttan 300
 agcaagcccc aacgtcttgg tatggcagaa ttgatgcaca tttgataaac ttatgctttg 360
 aaaaatgtct aagtgagttt acc 383

<210> 33045

<211> 330
 <212> DNA
 <213> Glycine max

<400> 33045

aaaaaatatg cttaatgcga ctatccatgc tcgtttgctt gtttcaaccc gtacaagacc 60
 ttgtttaatc tgtaaaacttt atgctcactt ccaatcttga cataaccggg tggttgttca 120
 ataaatactt gctccttcaa gtatccatgt aagaatgttg atttaacatc tagttggcaa 180
 atggggccatg aattttatgc cactaaagca atcatcaatc tgatcgtgtc atgtcttgca 240
 acttgagaaa aaacttctgt atagtcaatc ccatattggt gcttgtatcc cttcgccacc 300
 aaacgtgcct tgtacttgtc aacttcacca 330

<210> 33046
 <211> 293
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33046

gcagtgttct ttagatgtgc aagataaagt atattgcatt aaaaataaat gagataaggg 60
 aagagagaat tgtacattcg atttattttg gttcggtcac ttcctgtacc tacgtccagt 120
 cctcaagtga ccacttgag attttctact atccttgta attctttata atttctgaac 180
 acacattgng attcctcacc cttgtgtttg agtttctcac atgccaagag ataaacaatc 240
 tcttgattac aactattgag ttttattaga tgaacaaaat gatgtctctc ttt 293

<210> 33047
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 33047

catcaagctt ttttttttgt gcatagaatg tggggaaaaa ctagtaagtg tcatgaatct 60
 ctgacataag cttcaaccaa ttaacattgt ttgaatgaca actgtttag ttgcaccgca 120
 atcacatagt ttgtccacca tggatgctt tatgttccta ttggttatag ttttggtatg 180
 ctttatgttc ctttgggtat agctttggtg gtagaatgtt taatttggag tccacaagag 240
 gaggatctcc atatggtgct ggagttattg ctggagatgg tagaagacaa gcaagtgaaa 300

tggagctgga gctcgcagag tatcatggca cgtatatatg aaattagccc ataaat 356

<210> 33048
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33048

cctcggggcc atttcctgcg aaggcaaaaa ttaggacatt tantttacca gngggacact 60
actcttagaa canaaatggc atacaacctc ctctcataaa taaaaacatc aatgtaaant 120
tagagcaagc ttatgcgcac atttccttat gaacgttcac ttgcacaaga catcctatta 180
actaagaaaa atgcacccat atacaatcaa ggtagcttca ttacctagat tatttacatg 240
tacttccaag gtgtatttgt tatttacatc acacacgcct ccttggtga atttacatac 300
atgcatactc aaagcattnt gnggtaccaa anactgcaca tgcgctcatc ctggtatttc 360
taatacccat gcatatacaa acttcacgat gaatctngac tacctacaca ataaggtgct 420
acatttca 428

<210> 33049
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33049

agcttgtatc tcttataaga gaatgagcat gtgattggaa gtgtgactga taatgttact 60
cactttgtca gattgattgt gaaggaatac attaattgta tcccaatgag agtgtgatcc 120
ttaaactttg agagaaatga ctatcattta gtactgatcc ttgcatgaat ctctgaagta 180
ttgactcaat gcacgatatt gaggatgatg aacgccatat ttgattgtga tagccactta 240
tccacanagc tgaccatgtg cttgaatgaa ttatccctta tacctcattt gagctgaatg 300
aatgattgat tgattgaacc ctgagccta 329

<210> 33050
<211> 151
<212> DNA
<213> Glycine max

<400> 33050

taaatcctac ctcattggggc atataccaaa gctcaccatg cagataatca tacttttcat 60
gtgctagtcc tatagaatat tgaaaagagt gttcaaattg gtgggaggac ttgaacattt 120
ttgattttca gactatacgg ctttcctaata g 151

<210> 33051

<211> 558

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33051

cagggagagt tttganatct tgtangcatt tgnancnntc annaanntna gcgnaanacn 60
ccgggaggcn ttagagacga cgagctttat gcaagcttga aggccctggn tatcataaan 120
gcaagnccgc ancgagggc gcttttagcag cgaatagacc actcccaccc cgaggtgcaa 180
gtaagccaac ttgcacaaga acttacgaga agtctaattg gaatttatgg ctaccatgga 240
gcctaaccct tatgagcatt gtaaagcagt gtcataacg agcatgcatg aagagggcct 300
anctcatgat gttgctaacg gtggtgttga cgatgatagt aatgatgacg aagagaaaac 360
tccagagaga gaaagagaga gagagagaga gctgtgtgtg gaaaatgcag aaaaaatgat 420
gataataaga aaaattgtct caccgagggt ggcgattcat gacgggtctta tatcccacaa 480
ccacgagtca ttagtgagg aaagctaaca acggagcatg tattgagcct accaaggatg 540
taccttattc tttggccg 558

<210> 33052

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33052

gggcaagttt gttcttcggt gacctttgaa nacnaaacnn cacngaaccc nnnangagag 60
agagnggcct tttttanaaa ttctccaacg ggaggcaggg tcttcgtgaa tgcacaaacc 120
aactgcccac aataaatgat taaggattat agactgaaat caatttatta tgcgcaggcc 180
atactgcac atcccagtct cgaatgccca attgacatat cgatatcact gacactctct 240

acaattatga cctactttgc aacacaccag gtgtaagaaa aaaaagccaa agatacactc 300
 ctctgaacag ccaacatttt catattaaaa aacgtgtgtt tacaccacac ccaaatgatt 360
 ctaaagatct catttaccaa attaccaaatt gaaaaagggt gaattaaatt caatctcctt 420
 taccaagcgt ggtc 434

<210> 33053
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33053

agcttncatc agtttctgac ctctaacttc tcaaggaaac tttcttcctt gcttgccaag 60
 gaagctacct tcttgcttc tcaaggaagc ttctcatgtg ctagagtcac accttccatg 120
 cttctggcat ctaaagggaata taaactaaga tgcttttaac atattcttga aatattcctt 180
 ttagattcac atgaaatgaa aattatatat accaagtga atttcattaa attagtgacc 240
 taagctgtaa atagacacaa gtgtaaatatt tgtcacaact taaatgaaag agaaacttgt 300
 gagacacact tcanagttca acttctctct ctattctcct tcaaaatnca cgccacactc 360
 tctctctctc tttctctcat tctctttctg cattaaaaca tcattctct 408

<210> 33054
 <211> 531
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33054

nnnnnnnncc gactggcagn gtcgangaac ctganaacna acnngacaan acctncctgg 60
 tcatgatgag ggaattatct tttntcttn ntccannnn gtganaacgc caaaagaagt 120
 cgacagaccc aatgaataga attcatatat tccgaaaatt ccttcttct ttaaaatnac 180
 aagaacacga tgcacttttg gattcccggt tggggcctca cttgttcttt ttctctaccc 240
 ttcaccaccc attttctctt ccatgcccaa natgcatgtc ctctntcttt tgttggtttt 300
 ccattgtcat ttcgctgaac cctttctacc ctaattcttag agtacaatcc cctgctctct 360
 ccgatcaacc attaccgact gtcaccaccc cattctgtct tcgtgaacac cgtcatcctt 420

actactccta gctggngca tctatgacaa tcgtctgcat gtcaccgncc ctcacctcat 480
catcctagac ctattgcgca cgctctttgc nacatcggcc acttccattc g 531

<210> 33055
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33055

agcttatctc atgtcagaca ccctaataatc agcagttgca aacaatcaca gtttacttgg 60
tgccaactta aagtggaatt aaacaaggta taaacttaaa gttcataana aagttaaata 120
atgctcaaaa taggcaatcc tagcttaaata tntaccctat ccttgatgac acccaaagtc 180
ggcaagtaca acttatagaa ttctctctg aatgcatcca caaacctaaa taaagtttag 240
aaaccatcaa gaataagaca attagaatct gtttgatttg tataaatnta agggacaaca 300
agatacatct actatattat agtattttca ctttt 335

<210> 33056
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33056

tcgactcatg aacaggggat cttgatcgtg tacgangctg cngngcatgc cgtgaatctt 60
tccggtgggc tccatgaata tcttanccac tgtagtagca gtgtagtgca ccggaagtat 120
ccccatatgc acccctttgg agaaacgggc caccacgacc aggaccgcca agggcggcaa 180
gccaactata aagttgaggg agaggtcctc ccaaggtctc gtcggaattg gtagcggaca 240
tagtaatctc tggctcctac ggtggtcatt cttggtctgt tggcacacga tgcacgtgga 300
gatgaacaac tggacatcct gttcataga tggccagacg annattgcac tgatgcgagc 360
caaggtcttt gtattctcat gtggccgcca gtgggagtgt tgtggaattc tgcgacgatg 420
gtggagatgg cctgaagacc tttggg 446

<210> 33057
<211> 499

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33057

ggccacgttt gtacatcgat gaaccctggn natcaaaanc anaaccgacc ccnntngtga 60
ggtagagagg gancacttct ttttcanatg ttctgccacc cnangaggag ggtgctggag 120
ggctaagtat cnaaccacca gactctaaat ggcatggttt aagttttata atgttgtaat 180
aggaatgtag ttccatcagg cctaagttat taccgaaacc tctgagaacg gaaggtaatt 240
tggaatttgg cgacctcatg agacatcggt tggtgggttt taggcctcct tcgtacaaca 300
cacaacgtgt ttcgataaga gaaatgccca tatggatcaa ctctctagta caacgacccg 360
cgcttgtctt atctataata cacgtcgctg cattactgcc ttacctacat aaagtactcc 420
attattcttt tgatgacacg ctttaccaag gctaatactg agagcttgac agaacagtcc 480
tggttggggc gtgcacatc 499

<210> 33058
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33058

agcttganaa attctcanc agatagttat tagtagcacc aaatatgata tcatccacat 60
atatctagat gattaggaat tgacttctat aatctttacg aaatagagta gtatctacct 120
ttccataatc tttgctttaa accatacaag gctttattaa gtttgaatac atgatgaggg 180
tagatagaac tctcaaact aggggggttg tccacataga cttcttcctt gataagtcca 240
ttaaggaaca cactntntac gtccatttga tataacatta taccatgatg agcaacaaag 300
gatagtaaaa tgtgtatcgc ctctagacga gtaacaagaa caaaggtnct actattatct 360
ataccttc 368

<210> 33059
<211> 547
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 33059

ggggnctcgt ggacccgtcc cgangacgcg cancttnatt actcaaccta tgccgccaac 60

atctacaata gacctcctca acctcagctt ctattcagcc acaacagaat aactatgacc 120

tctgcaagca caggtaccat ccccgatgga agaaatcatc caaccctatt tggtcgaaat 180

cttcacaacc acaagcacia caacaaccct acttttcaaa tgctgtggc ccaagcagac 240

catacgttcc tccaccaatc tagcaccaca gccacaacag aaacaacann acagtaaggg 300

cccctcgcaa cctcgtcttg agaacttggt aggcanaatga ctatgccaaa catgcagtnt 360

cagcaagata tcaaagcctc cattcagagc ttaacttata agatgggaca gttgggtaca 420

cagttaaatc aacaacagtc ccagaaatct gatagattac ctttctcatc tgtccagaat 480

cacananatg tgagtgccat tacattgagg tcangaaagc agtgtcaagg acctcaccaa 540

tagcatn 547

<210> 33060

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33060

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ccgttggtca ttttcgagcg tctctatatg tgatgcgcct taatctaact tccgtgtgaa 120

aagttatgac catttgaatt tctcaagagc ttcctttggt caattttgag cgtctcgatt 180

tgtgatttgc ctgaatcgga catccgtgtc aaatggtatg accatttgaa tttctaaaga 240

gctttcgttg ttcaatttcg agcctctcga catattatgc gcccgaaatcg ggcattcgtg 300

tgataattta tggccatttg aatttctcaa gagtttccga tgtttaattt cgagcgtatc 360

gatataattat aagcctg 377

<210> 33061

<211> 276

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33061

[illegible]

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<223>      unsure at all n locations
<400>      33062
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gctaacgctt	cngattcaat	ttcgagcgtc	tcgatataatt	acaggactca	atcagacatc	120
cgagttataa	gttattgtcg	tttgaatttg	ctcagagctt	caacattcaa	tttcgagctg	180
ttcgatata	tactggactc	aatcagacat	ccgagtaana	agttattgtc	gtttgaatat	240
gctcagggct	tcagtattcc	atttcgagca	tctcaatata	ttacgggact	caatcagaca	300
tccgagtaaa	aagttattgt	cgcttgaatt	tgctcagagc	ttcagtaatc	catttcgagc	360
gtctcgatat	attacgggac	taatcagaca	ttcgagtaaa	agttattgcg	tttgaattgt	420
cagagcttca	cattca					436

<210>	33063
<211>	335
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      33063
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atactctctc	taccatgtga	nattcgtgct	ctttatggtt	tatgtgngtg	gatctttaag	60
catgtagcct	tagctacaca	accatcaacc	anactaaagc	attntgaata	tggctttcat	120
gtatcttgta	cgggtagtca	tataatctta	taggctctta	gcgagggtatt	acactctgga	180
taatttgtaa	aatattaatg	gatgacatca	tcgaagaaga	aaaattggtt	gtatgaatnt	240
gtttaaattg	tattttaatt	cttggtgcatt	gcaagttgca	acttaataaa	ctggttgaat	300

<210> 33064
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33064

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 gacgagnnga ngcatgcagc attttcaata tttgngggcn ngcttctggg attgggtgat 120
 tatttgaaac atattgcgca tgttatgggtg atcgттаааа atgagataaa ctctgtttatc 180
 atgataaaac atagcaacct accaattttt gacatcatga tcaaaccaac aatgtacccc 240
 atcaaaccaa aatattctgc caaaattctg aaataagggg cagctcgaat gacatctatg 300
 acttgtaaac atgagaatat gtcttgattc caaggacacc tcgaatgggtt ttgagattat 360
 atggttaatt taccatttca ctgtgaatgc tttcactcct atttttgata tcatagaacc 420
 aatctgccta cgattgaaag gcttgacttc c 451

<210> 33065
 <211> 204
 <212> DNA
 <213> Glycine max

<400> 33065

gacgggagct agcttacaca acgctacaat ctctttttat caacggcgag aggacctcac 60
 aaatatctca gggaccaata aacgagagaa ctgcttaact ttttaggagg cgtataacta 120
 aggagtgcaa aaaattatga cagccatata gcagataccc tcaaatactc gagaacgaac 180
 agcagtcact acataaactt tggc 204

<210> 33066
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33066

gcccgagtgc tctgccacnt aatctagcag ctgacaccat gggaagatac ttttttgaat 60

gtcgctctaa atgatggcag tagttcaata caaccaggca aataatttat catgtgatgg 120
 agtgtcatag ctaatatcaa acattaacaa gtaattgatt gccaccaac tcggtggatt 180
 ggcttactaa cacaatatca aaaaaaccct tgctagttta taaagacacc ttacttattc 240
 cctgtacaac gttctaataa tactatttat ataacatttc caagcttcga gagctcataa 300
 cagtctatca ctatcact 318

<210> 33067
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33067

agctatcgaa tctgaatctc attctttatc acattgtctt ttctgtacta aacaaaaacc 60
 caattcgcta actttntacc aaaatattaa tttattaatt aggaggggca tacaaggaaa 120
 tatattttca aaacctatct aggaataaat ttaaataaaa tacaaaatca aatctattgt 180
 ccgaaggagg cgccgttggg tttctatcc taaatcctac cattttccct tttcataatt 240
 ctcactctcc gcaatattat tttccttcaa agtcattggg aagttaaaga cattnntttt 300
 ttataattnt ntgcccatan aaaaaaata attccatgta tcgaanattg aatattcaat 360
 gtaaaccaca accttaattg aacattatat tc 392

<210> 33068
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33068

gggagaggag agtcagagaa cttganacca aacnatagca actnnnccaa cgtgtagacg 60
 aattatttac ctttagaaaa ctgcgccgtg gacagacatc gctatagaga tatccaactt 120
 ttagggcaca tgctacacaa ggcttggcat cagtacctct cagaactgag gcccaacaga 180
 catacatatc tgctaagaca tacttgttct tgcaaaacta catactacaa acttttcttg 240
 agccacctgt accttgcta gaagaacgag tgatgcataa gaccctgcct aagatcgctg 300
 ttcttcaaga catcaaggac ccagactga gcttacgcat tcagatggga ccgttggcta 360

ctcaattgga tttagcggccg ttccgaagac tggatgatgaa tctctcaatc gacataatct 420
caaagtgggtg ttgccactcg tcttagcggtg aagggtgtgca agactcaacc aaacaccg 478

<210>	33069
<211>	272
<212>	DNA
<213>	Glycine max

tgaagctctg ataccacttg ttggacaagt ggcctcagat ctcttaacaa cggggggggtt	60
gaattaaaat attcgaaact ctttcccttc attaaaaatc tatcttactt ttactttaag	120
ttatgaattc ccttaatgac aatcttggtt tatattaatc cacatgaagc aacttgacta	180
tgaatataaa gcactaatac ataaaggaga ttatcggaag agagaatgca aactcaatta	240
tatacatgtt cggccacaca cttgtgccta cg	272

tactcacgct	tcaagaaaag	gcccaactct	ccttagatat	cataatntcat	gtttaaataa	60
gtggctntgt	tcgtagcttgt	gcgcttagcg	caattctgaa	ccgcttagcg	cgcatttagtg	120
aattatggct	tagtgtggct	cttctcgctc	agcggatgga	ctaaagcggg	ctgttttagcg	180
ggttgacctt	tctctcaqct	aatatgcaca	act			213

agcttntgcg gattttgngg tctttgccag tgaaagggaa atcgatgtgg ggtctaanat 60
ataaggggcaa gtttaagtca cccttggtt ggaccgaatg atgataaact ggggcaacat 120
gaagaagggt gagggatgaa ggggagaagc ccgtgcttgt gaacttgcca tttccaatac 180

aagcccaagt ttctcaaccc aacccaacaa ttgtcattat ctcagccaat aaccaaacct 240
 tctcncttac tccaccgccc agttatccac aaaggccatc cctaaaatca accacaaagc 300
 ctacctacca cacttccaat gacaaacacc accttttagca taaaccaaaa caccaaccaa 360
 gaaatgaatt ttgctgcgag a 381

<210> 33072
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 33072

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 gcgctccaga tacgaattaa tgactcaagt tctaacctgc tataaccatta cacgcttgag 120
 ctattgaatt catttcccct gaatgagaat tagagcttgg agaaactttt tcgggttctt 180
 tacaaagact ggcagatata agtgacgtaa aatgacgtac gctccggtct aaacagaggt 240
 gcatagatgg cattgtggac ttgtattggc gcttcaatgt gtggccc 287

<210> 33073
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 33073

agcttacaac attgtcggtc atatcataag tgcaaatgca atagaacaag cgatattttg 60
 cttccaaaca cccacattg gtcgggtact catatcataa gtgcaagcct atattgcttt 120
 agaaaaacat taatgcaact ctatattttt tctgttttga cctgagggtt acaaattaca 180
 tattcttccc atgatttgca tctgttgctt gcaagcctat attgcttttag aaaaacatta 240
 atgtatccat ttgactgtgt tatcattaaa ttggcattgc tatttttagca atcaccaatg 300
 atcttgtaaa cttatagggt tgggttaatgg taaggataaa aagggtggata ataaagtgtg 360
 at 362

<210> 33074
 <211> 261
 <212> DNA
 <213> Glycine max

[illegible]

<210>	33075
<211>	213
<212>	DNA
<213>	Glycine max

caactgacat	tgcgcttggc	ggccgcgctt	aacaaagtat	ttctacacc	tactgttcgt	60
tgatttgacc	aatgctgtta	tgggaatggt	tcgacaatcc	ttcaaaacc	tatggataca	120
ttctgaaagg	ttggttgtca	tgttgccata	tcaacgtcct	tctctatcat	aagccatcgt	180
ccattttttac	tgttgaattc	gatcaacc	ca tgt			213

<210>	33076
<211>	533
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      33076
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13774

aagcttcaga ctatagcaac acacaatcta ggtatccaaa cctctcatta atg

533

<210> 33077
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33077

catcgaatat ccntatata naccgaccag aggnaaggga aaatttattt acccccgccc 60
gggaggggat ggcgaaaacc tccccggtgg ccaaaccaac atttattacg tcaccgccgt 120
taagaaacgg agctaaaaca cctgcacccg tcagcttcac cagcgaacta atatgaaccg 180
cattaaaacg gcagcttggc ccacaagcgg acatccctaa taagggatta atgttatata 240
aatgggaccc caccgagagt agatgcggct tgcggccctt taatcacggc c 291

<210> 33078
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33078

gagagtaata tgtgcaccnc acaacnaaca ccgaccagaa ggggattatt tactttcaac 60
cggggaggag gaaaacccaa aggacccaaa gccaacgcga cagggaaccc gccaaaaaag 120
gagcgccacc caaaaaacca aagagaagaa aacacgaaca cgcgaaacca cgcaggggaa 180
aacaggagaa caggaagaag cggagaacgc acagacggaa aaccaaaga ccagcgggaa 240
ctaaccagcc ggaagtggaa gaagggccgg caagaccgc g 281

<210> 33079
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33079

agngggaatt attatctatt tacttnnact catnnatnta ttgattttat gtattatagg 60
agaacttaaa ataaacacgg ttgttacagt aatcaattac atatccatgg taatcgataa 120
ttactttgta aatcagttat aaaactgttt tgagcttctg gtaattgatt actagagagt 180

0044064030

aaaaactttg gtaaaagatt tttctttgaa naattctttt ggacaaattg tgctattcaa 240
 tcttttcttt gaaaaattct ttttatactt atcttgatga ttatcttgag gctcttgcac 300
 atcttgagtc ttctcttgaa tctcacttga atcttcttga tttctttaat cttgtttgaa 360
 aaatcttttg ca 372

<210> 33080
 <211> 520
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33080

agggcatatc aattcncttt ctttgtaccg acncttanat tnatcaacnt ncctannaac 60
 atntcatgcc gggggacctt cttctagtagt tcattttctac agcatcctcc aacctctttg 120
 ccttcccaac tagagcaatc ccaaccaaana aattgggaaa aaccggaaaag ggagatcttt 180
 gagaaccttc aggaaggatga nggtgacata cctctgctag atgccctcag cgaattccag 240
 ataacctcaag ttctaagtagt tgtgcacatc aaaagaagct caaggcaata aaaggattaa 300
 catggcagat atgtgtcacc ttgataggaa atctgttctc acattcctga gaaatgtang 360
 gaccangtac tttctgtata ccctacattt atngngaaca atanatntga gaatgctttg 420
 ctagatctag gagcatcagt tagtgtcatg cctctgccat ttcaatctta tctttgacct 480
 ttcacttaca atggggatca tttgcaatag agtgtgctcn 520

<210> 33081
 <211> 296
 <212> DNA
 <213> Glycine max
 <400> 33081

ttttttgcca agtattcaga ctagccttat tcattttaca tttctagcct gacaaatcac 60
 actctatccc ttgcaaccac ctctgcaatt attttcatat caactgctgc ttgaactatg 120
 gactgaactc ctacttcagt tcttgggtgtg ggagacttgt ttctgtaaaag caaatgatc 180
 gtaaacctgt gatcctgatt ttccatccta ttttaaagcg gaatttcaca taatttcgtt 240
 ctgatagatg attcactaga tcagcaaaat aaaattgttg gtcaatagaa ccttac 296

<210> 33082
 <211> 162
 <212> DNA
 <213> Glycine max

 <400> 33082

 agcttgtccc attaacacgg ggggggttttc ttgcgggggc gacccccctt tttaaactt 60
 cctgacggca aaatacgta attttgtcaa taagctctct ggccgattgc tccttagtct 120
 ttgcagtgat gccccggctc aagctaatac cgacctttcc gc 162

<210> 33083
 <211> 260
 <212> DNA
 <213> Glycine max

 <400> 33083

 agcgtctcga tatattacga gtctcgagtc aaacatccga gacaaaagtt attgtcgttt 60
 gaatttgctc acaggttcaa cattcaattt tgagcgtctc gttatatgac aggactcaat 120
 ctcacattct agtaaaaagt tattgtccgt ggaattggct tagagcttca acattcaata 180
 tcgagcgtgt cgatatatga tgggactcaa tcagacatcc gagtaaaaga tattggcgta 240
 gaattgcgta cagcttcaca 260

<210> 33084
 <211> 551
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33084

 aaaggtggac ggaatgcgat agcancnccg cgacactcta caatacnnaa cactngagat 60
 canngaagcg cnngaanagg agagacatcg ctgtctcatt ttgtcgacca tcagacgcgg 120
 caccctggga gatagtgtcg cggggagtca aagagacctt tgnggaccgt canggtgggt 180
 gtgctaattg ccataacca cagctgtgac caataccga cccaaccccg ggcataaggct 240
 ggtcagtgag aacctgtgat gtacctaaac acgcgagctc ctngcagtca actgattaaa 300
 ggaacaaaga ccacaaagca cggaggcttg tgggtggtgg ccaactctga attttgtgtg 360
 atatgtggat tatggcctct ggtgatcgat accaaggggtg ggaatcaatt caacggctta 420

aatgacacag gagactagat gtctctgtaa tcgataccag gggcgatcg atatcatctt 480
gatacnaagt catgaactaa tgacgctctg gtatcgattc caccagtgac atcaatacac 540
agagggatgg g 551

<210> 33085
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33085

ccatttecta gttaaccatg cattaggtac catgttcaat tattttgctt ttaagtgaac 60
cggtgcttatg atcccaacat gggttgctcg tgggtgcctaa cacatgaaac taagaatgta 120
gtgtgaagtt tcacgcttcc cccttntttt gttttgtctt gtagaggaga atgcaaggat 180
gagcaaacat gaaaaccaat ggtatgcaat tttgcagatc aaaatagttg ttgaacgcat 240
atgcctgatg atgccatgac tcatgcaaaa tgtgacgccg gaatatgat 289

<210> 33086
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33086

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cnannngcan gcagaggagg aggaggaagt gaattgttct ntctcnana caccgacgag 120
aggcgcggtt gaagcgaatt gcaactcacct acagagcaca gaccggacct gagaccttgc 180
atacctcaac gcaggcgat gggacaatac aaatgctatg ctgcaaatac cgacaataga 240
catcatccac cgtcgatagc gaatcgacca cgctgaaca gatgcgcacc ctctagcaa 300
ggataccacc gtcgaaagag aataaactg attgggaagg cgtaccctca taacagacaa 360
agaacggggc ctttcttcca aatgccgtag gtcctaggaa ccataatttc ttaacgctat 420
gacaacccaa tagccctaact actgcaagcg tggagcgttt ccacaacttc cttaagaact 480
tggtaggcac agcgttgcca acatcgacta cacaagaacc aaccg 525

<210> 33087
 <211> 550
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33087

gggtnnncngn ggcgganagt ttgatcgatt tcctttacnt tgcacaatca atnaannaca 60
 annncnccnn nnggnnagaa agngaggag caaggacgta ttacnattct tccangacaa 120
 cnacacgcgg cggcgaggga tttctagatt ganccaccca cttcacgatc aagcctcatt 180
 tcaagttccc tgaccagaac atatgaagga tctacactcg cgagaggggt ggttgccaca 240
 ttccagagac gatgcagttc cggtttcata caccaaacgc ggaggacttc acatcgcggg 300
 tattecgacag actcttacac ggctcacata gcataggtct ggtctgcgaa agagtttttc 360
 tgtaaactat gtgagttagc cacattcttc ctctttctta tcgatggccg gaggccccta 420
 ctttatcaca actttccggt ggggtttacc ttcccacatg gttcgacccg gagtattcgt 480
 acccacgggc tcgggatcga ctccccgcgc atttatctat gggctctgac ccaattgcga 540
 ccactcagcc 550

<210> 33088
 <211> 494
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33088

gcagaatttg tgatctatac nncttganac acaancnna ttaaacacng agccnnggag 60
 agaaagaaag ttatttttcc actttgagcg aaacggggag gagatgggaa cttttctaata 120
 actagaaaca atgatgggtcc catttcaatc taaagtaatc ctaagctatt catgtaacct 180
 gtcctggggt gccagcaagn ggtgaaatct gtgaagtacc catattccac tgctatttag 240
 actggtagcg agctgtggag ccgcaaacac actcgaattt ttgctaaggt gggcggcaat 300
 ccataaatat attggagggt gttgttctat tttcatacga aacgagattc gagtagttgg 360
 gctatatctc ggggtctacac ttctaagata tgattgggtc gtgatacttt cctaaaggta 420
 atctatactg actgtaccaa acctccatca cttggccgag gggacttact cactcgtttt 480
 aaacataata aacg 494

<210> 33089
 <211> 354
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33089

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 ccaactcccc ccgggggggg gggaaaaacc acaccccccg ccgcgaacag aagcgagcga 120
 aaaaaacaga gcgcagggca aaccggacaa aaaagccgaa gcacgcaaac acggggagga 180
 cgagcaagac agcaccagcg ggagaaacac aacaggggaag ggacagagaa cggcagacgc 240
 gcggaaccca accacggcac accacagaga caggcccggc ggaaggggac aaaggcacgc 300
 gagggccaca acagcagacc ccaccacgcc aaaccgcaag ggcgagaaga gggc 354

<210> 33090
 <211> 363
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33090

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 tgaccaaaaa gcactggatg agaaataatg aanaacacca caactgccaa gggatttcat 120
 accacctcat ctcatTTTtct tgctcccttc cttgtcacc aataaaaata ataaaaatat 180
 gatgtatggn tgaaaaataa tgtaattnt atctgttgag gtgatcattt ntcttttgga 240
 gaggaagaag gaaatactct aaagaaacag gtaattntat tacatcttac aacaagaatg 300
 cangtttccc attggtttat canaataatt ttctaattat tttataaata aaaacattat 360
 tga 363

<210> 33091
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33091

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 atgttttctc tccactctgn gngaagcgaa aggaaagacc atgttcgaac cttgagggaa 120
 agtacatggg gataggttta tactatatct acggccaggt ggaccagttg gagtgcctaa 180
 attttcctgg tttaaatggt gcttctggta tgaaagctct gatttaaaat aggctgaatt 240
 caaattatct gtttttttct ctttagaata ataatgttta gggctatata caagctccgt 300
 accttatgga ctgagtgtga tccttatgaa ttcataataat gactgcgtgt gacttcttgc 360
 taaaaagttg ctcactatct gatttcatca tgcncaa 397

<210> 33092
 <211> 546
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33092

nntacggaaa gtcccgaacg catgncgtct gcnatctcag cctntacgaa canaatggcc 60
 tcattctttt ccaaataatgc tggttgaatt ttgtacgcat caacaagaat caagcccagg 120
 ctattgtgcc agcacatcat gggggcaaac acaccaaagtg attatgatga tggatggctc 180
 caattctcac aaaggtaaata cattactttc caattgagcc tttcaaacta tcatgacatg 240
 tagaagagaa tcaaggattt caagtcacaa aatgtcgaga acttttattn ntcaaacaat 300
 taccattttc tttgacatat cctataattc anagaanaac atgcanattc gtacgtgcac 360
 acaaaatnga ccgcaaataat taaactaaaa atccgacgaa actaacaaca ttaacaanat 420
 aacacaacta acagattaac aanaccaaca aaactagcca aaccaaagaa cacttcccc 480
 cccccccat acttnaaca cacttngtc tcaatgtage acaatttana gaataagaac 540
 cattan 546

<210> 33093
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33093

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attnccca	acccagcaga	ggcggtaggg	gacacaacaa	caccccgggg	gaccgacggc	120
gaacaaaaa	cagggggcag	acaaacaggg	ccaaaacccg	cggcggggccc	caacagcggc	180
ccagaagaag	gcgggggagcg	acaaagagaa	acacgcgccc	gcacgaggag	caagtgcggg	240
caaccaacac	gggagggccac	aaccccaaca	aaagaggggac	ggaccgaggg	cgggagcaac	300
cggaaacggc	gggacgaaaa	gggcggactg	acgcagggcc	aaacgagagg	gggcaggcag	360
aaggc						365

ggagagcgca	tcgagcnncc	anaccacacc	acacgcccag	ggccgagagg	gggggtgtct	60
tcggcttnnc	ccgccggcgg	accaggagaa	aaccgacgcc	agaggccccc	ccaaaggagc	120
gcgccgggaa	aaccacaccc	cagacagccc	cngggagaaa	ccacaagggg	aaggacaggg	180
ctgccaaacc	ggacgacccc	cgctactcgc	aaaaggacgg	cccgcgggac	gaataaacac	240
cgcgcacccg	gggggccgaa	gaaggacgcc	aggcggagac	ccccgcaccg	ggcccacgca	300
gacaggaacc	cccgtcagcc	ctggggggccg	gagcaacacc	accccccagg	gggagcggcc	360
gccaaagagcg	aaaagggcag	accgccaggg	ccgacaaggg	g		401

tacagcagta aattggaggg gagcgatcct tgtgttctga ctctcaacca cttatgatag 60
ctgccgatga tcccattact gctttcncta agatctctgt actttattca aaccgcattg 120
catgccttgt gaactcc 137

<213> Glycine max

<223> unsure at all n locations

<400> 33096

gcgacaacag cggagagggtt tttgatatga taccgcaca attatanacn accnnnnccc 60
 nnnagannng nctgctctga ggacaacacg ttttaactct cccccgcac gggcggatgg 120
 cattgccaga ttagatacgt cgagaacatc ttgnattgct tatggagtat gcttcaagcc 180
 gaagagggat taatagacaa ctgccctgct tctgaggtgg aaagaagtga nagccaggat 240
 cacccgagat cgatgacgtt gctaagataa atancgtgaa ataaagaatg gaaccaaata 300
 ctcattactg ctgaaagaac aacatgggga gaataaatct tgtccagaag ttatccttcc 360
 aaatcttggg ggaactcttc taatataaga aaccttggga ggaaaaccac aaccaagttg 420
 tctgattctg attttgtcat tcatcttgcc aatcttgtgt atgttaatat ttaatcn 477

<210> 33097

<211> 493

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33097

nnccccgagc aggtccgaag tcnnccntnn atacanenca cgcagacann nccggaggcta 60
 caggagaggn gttagtTTTT cgcgcgacca cccctcgagg cgggactgga ccggaaacac 120
 accatagcca accgcgccac agggcatgcc gatcgaccg cataccgatc tagaacgatg 180
 ggtgatcaag atgagacaca gcatcagaag acagccgacg aggcngcgag aaacaacgaa 240
 aggccccacg acagtgcact gctaggaatg agagcacgca gcgcaaagac agggccacag 300
 cagccgttgt aaatgcagat gccgaatctg acgcacacac aatggggacc gcgcaccagt 360
 caccacaaat cgactaagct gcgaaagacc acatgcgccg atgcagcctc ccggcataca 420
 ccgacaggca cccgatggat gccgccacca ccgcaacaac ctggnacgaa gggccaatgg 480
 aaccacctg aac 493

<210> 33098

<211> 147

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 33098

gtttatatan gcacatatgt gagaaaaact aattgatata agaaactagc tagaagggaa 60
attagaaaag tgatcgatat agctgtgatt ttgtgtttgt atgtggccac atgagagaga 120
gagcaatgat gacattggag tcatcat 147

<210> 33099
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33099

cncaagcgag ttgatgantt catgacantc ttgnacacna catanacna agctagccac 60
ccanatcgcc caggagagca cagctcgctt tgcatacntg ggttgcttcc tcacgaggca 120
gcggtctatt tgaggattat gtgaggaagg cccaacagtg ctctgtctgt tatgtgcacc 180
cacatgatca ctaacacacc cctgactact ntgagggaga actctttacc agagagtgc 240
cgcgctacaa atttgaacaa caactttatc gctttacaga tgttcagaac actgctgatg 300
attatatgat cgtatttgac tactgccgtt tctgacctca ctaagagcaa agagcgatc 360
aacattgacg cgagctctga aattatatat gagcatcttt tggatttgat tgcgcattcc 420
ttaatataaa aaccctatgt ggtgccagct ctaaagacat acaagtgggtg tattacatag 480
accgcatga gg 492

<210> 33100
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33100

agcttttcat attcttattt ggtggctnga attaccttac acatacaagg cttgatatag 60
ctcgtagtgt gagttagt tcaagatatt tgcactctcc aactaagcaa cacttatgtg 120
caacaaggag ggttcttaag tatgttgcag gttcaatcaa acttgaggta ctttatgaga 180
gtgtggataa tttcaagttg gttggctata gtgatagtga ttngtaggg ttcttagatg 240
ataganagag tacatcagat tntgtattca gtcttggctt gggagccatc acgtagagct 300

ccaagaagca agacacagtt gctttatcat catctanagt ngaatatgta g 351

<210> 33101
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33101

tgcattgttcc tttttgttat tgttgtgtact ntgactacga ttgctaaaag aacaaaatgc 60
aatgagtaat gcgacaacga attaaacatg aatgcatgat aatgataagt tgttaaagta 120
ttgaaaccac atagaaatct cagcanagac atagggttga atcacatctc attntcatta 180
agagataata ttgtttatct tgtcaaagcc aaagcataaa taaatacaaa cgtcttagcg 240
gttcctaatt atgtgggaca tcaactcgat catataaaga caataatcga aaagcccatg 300
aacttctca ggagccgagt atacatccgc cattgccttt gctctggcta acagccttgg 360
aagctcttga ctcccattca gaggtaaagt gaacctatcc atccacttca taacttctc 419

<210> 33102
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33102

agcttgtata tctgccactg gttcagctcc aacactaacc aacagcactg cttccatcac 60
caaggcagct gcaaaaatga acaagagggg cagcttcttg tccattntcg gctctaacag 120
agaatatcaa cagttcacca caacttggac gtaaagtagt gcctccacta aagatattgg 180
tcacctttac aagataccaa agtggtgaaa taacgaagga tcaattagac aattaataaa 240
cacgactaca ggagtgtntt ccttatatac gcaaacttga accaaagaca atngtgtatg 300
tggtctgttt gtatgtaccg tgtgcatttt actaagatta tgctaagtgt ctgttgagtc 360
aaaatatgca cctcgtgtaa tcgtgtctga catggacatt aaccctatta acattntgt 420
cattcgcta ctcgatttgt gtttcttaat gactataaca aa 462

<210> 33103
<211> 240

[illegible]

taatccgagg	cttactagtg	ttgccttatg	cncttttggc	nganaaacag	tatgatattt	60
aatgatatgc	tgatacttac	agtcagaaca	atgagaatga	gacacctgtt	acgctntatc	120
ttccagacat	ttatttcctt	ctctactatc	cacgagacta	ttgcactaaa	gatggctcaa	180
gtaagttata	ataagaaaca	ctttcattgg	ttccggatat	cgctccacgg	tttcttttcta	240

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<223>      unsure at all n locations
<400>      33104
```

ttccctggttg	tttctttgag	aagctntctc	aagaggcttc	tttgagaagc	tagatcctta	60
tctaccacaca	cccttctatt	aactaaatta	acctccttga	aaataattac	ggataaaaaa	120
taacataaca	aataatcaaa	catcaaacat	aattactaat	atatatatat	atatatatat	180
atatatatat	atatatatat	atatatatat	atatatatat	atatatatat	acatatatca	240
gggtgtgaca	actctccac	cctcttagaa	atttcgccct	tgagatatac	cttactcaaa	300
caaggatggg	tgagtntctc	gcacttgact	ntctaattcc	cacgtggcat	cttcttctga	360
tgcaccttcc	cagatcacct	ngaccaacga	natctctntc	tctcttaggt	gttggtgcgc	420
ctattctcga	ccctcaaagg	caatgttata	tatgtcatat	n		461

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<223>      unsure at all n locations
<400>      33105
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tatcgtaatc gattacacca gttatTTTga gacaatggct atgttatnta ggagtctctg 60
ctTTtaattga ttatcatgtg atataatcaa tcacttctct ttctataagt gtaacagaag 120
tgaacaagaa cactntagtc gattactTTg agtatctaata caattacagt gttcttgaac 180

atatattatg ataattaaat ttcttatn

508

<210> 33108
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33108

agcttataaa tatctaaatt attatnntaa ataaatattt gtttgataga ttagatttaa 60
aaatataatt gtcaatgata ttntatatca ttntatgtta aaagagataa aaatntacat 120
gtaaattaag atattttnta tttatcaata tatntataac gaatgttcta aaattagaga 180
ttgaccactc aactaaagtt gattaacata gagataaaaag taagtgttat gtgtacattn 240
tttaagagcc atataagaat aaagtgaat tgacat 276

<210> 33109
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33109

aaaacagact gcatcggtta ngatgatcca ntogaanaca cacaagcccg aantgaggaa 60
gngtagaagg gtgagacatt ctggctttat ttcgttacca catagctgnt acctgaagat 120
atgntgccgg tggtcaggat acccttagcg acctcaggtg gtgttgctat ttccacaacc 180
cagcgtagac caatcccgac caactcgggc atagtcagtc aatgagacac tgtgatgttc 240
ctacacaggc agtcctggc agtcaacttt ataaatgaac agagaccaca agccatgacg 300
cttgtgtggg gctggccagc tgtgaaactt gattgctata tgggatgtgg cctctggtaa 360
tcagatacca atggtggcga atcgactaca atgctttata ttgtgaagac atgaagctat 420
gatggcctct gggatcgac taccactggg tgaatcgatt accaccctga atatngatc 480
atgaatctaa gaaggcttct ggnagccgat cccaatgggt agaataatta tcagggttagg 540
aatg 544

<210> 33110
<211> 285
<212> DNA

<213> Glycine max

<400> 33110

agctaccaag ttttttagtta ttcctcaaac tgcctaagcg agcgggaaag tctataacaa 60
 cttccgttgc ccatcggttt ggggtgaaag tgggtgaaca aacaattaat gcccaacttc 120
 tccacaaagc ctccgaaacg catatatcaa gccgtagata ggatgcctaa tttaatggtg 180
 atgttttaag ggctctaaat cagatcaaat gcgccatgtc ccatctttta tggatcaaat 240
 cactggacaa cacaggactc atctatctct acccaacttt gctat 285

<210> 33111

<211> 627

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33111

ggggnnnccg caggtagttc atttttctat tgtacnnnt cnnnnanaan attcatnna 60
 cnnnacggn nanncacaan nnnngagcan ngaggggaaa aaagagagca nggacgnata 120
 nactttancg cnccananc accacacgan acncgggcga gcgggggaaac cagcaccaaa 180
 gaaaacgaga accnccaaac aacgagaaaa acccgacgca aagaacgaga acacaagngc 240
 gcccaccccg gagnaacaaa ggaaaaggga ccgnggcaaa ncacaaccaa gccccgggc 300
 gcgaaggagc acagcagcca cgaacaaaan cacngcgacg cacaanagga caagcccgac 360
 caagaagagg acccgcgca naggaacang cncagaagcc cgaagaaggc aannnccaag 420
 caggcccgac acacaaccag caccananc ggacaagccg agncgaaacc naacgggcgc 480
 gcaaanncag cacagaaccg ccagcaaaa anacgagcgg cacgacaaa cccggaccca 540
 ancagaccac gaannnaaag nganaggcgn cgggaccgag acgagcacc gggncggcca 600
 cgacgacgca ggcangaccg cacgccg 627

<210> 33112

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33112

agctntncac tcttatgtct gnattaagcg cataatatat cgagaanggc ggaattgac 60
aatggaagct cttgagcaat tcaaagatc ataactgtta actccgatgt ccgattcacg 120
cgcataatat atcgagacat tcgaaattga acaatggatg ctcttgagaa atacaaatgg 180
tcataacttt tcaactctgag gtccgattca gactcatcat atatcaagac cctctaaatt 240
aaacaattgg agctctcgag aaattcatat ggtcataact attcactcgg acgatcaatt 300
caagcgcatc atatataagag acgcttgaat ttaacaa 337

<210> 33113
<211> 544
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33113

gcaagcaggt gattcntcct tgggtacttgc gacacttaat tactaagctt gcatcgtgct 60
tttgctagcg gaggaatat gactaccatg gctatgacca ccgagagcan agagnggagc 120
cgctgangga ctacaaagct ctctcttctg acatacagat cgggtgtagaa ttattagcca 180
gcttgagcgc gaacttccat agaaacgttc agatcgtcaa gatatacctat gagctaacag 240
tgatgcactc ctagccgac tatgtgtgat gagactccat aggacctacg ggagcaaaga 300
agtgagattg gatttacatc acacacgcct ccgtggctga atatacatac ctgcatactt 360
gacgcctgta tgggtacctc aaacgatacg tgctgacatc ttggatattt taagagccac 420
gcgtagtcaa actggaccat gacacattgc tatctgcctt agattgacgc tctgtgaag 480
cgttattgac aattgtatgt ctctaaagc cccggcgagc aaaacctagg ttcctttatt 540
gaaa 544

<210> 33114
<211> 346
<212> DNA
<213> Glycine max
<400> 33114

ggagaatgtg aatgtatgta tacatgattc tgatgatgtc aaaagaagaa tcacacaaga 60
ctcattttgc ttcaagatta atacaagatt gtttcaacaa acaaagcctc gattcaagat 120
ttcttcaaga tcaagccttg cctcacaatg aaagggttca tgtcattcaa ggcacatgta 180

atcgattacc aatgggtttga aagtgtgtaa tgcattgcac atcatatgta atcggatacc 240
 agagactctg aacgttggga attcacattg tatatgaagg gtcacagcta ttcacgacta 300
 ataactgtgt aatcgattac actaattcta taatcgatta ccagag 346

<210> 33115
 <211> 196
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33115

atgagaagct agagcttanc tacatacccc ctatagtagc taaactcacc cctatgccag 60
 aaaacatgac aatataaaac aagtgcctac tacaaagact acttccaatg aatgtgagtt 120
 tattgcaatt acacaatcac aaaatggggc tcaaccttgg tgggggtttct ctctttggtg 180
 attcactcaa tatgga 196

<210> 33116
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33116

agcttgtaat attaattctc cttcagataa cctctcttag gtgagaggcc atgaatgggt 60
 ntatatctaa cgcaccttgt aagcaaaaga atctccagtt tgaagtgtag acaatgcaca 120
 aacccaattt actgtatcct anaatttact ntaattatga agaacggtgg tgacaaggat 180
 tgaattcttg accacttggt cgtaaaatcc ttggtaagag ccaactcttc taaaagttaa 240
 agctcttagg tagaggttta ttcatttgta gcactaaatg atgtttataa gtcttattta 300
 tgggtgcatat cgatgttggt aactacatac cgaaaacttg atttggtgca nacattcttg 360
 atta 364

<210> 33117
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 33117

[illegible]

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<223>      unsure at all n locations
<400>      33118
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<210>	33119
<211>	354
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      33119
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13792

<210> 33120
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 33120

tttaattgaa ccaaaatatg tacgctttta ttattctttg tattgcaa at catggggata 60
 caatctttat ttgtaatgc cataaagcca cttgtatgtt cttcagtaga cattgaagta 120
 caggttctat ttttctcaca attttcattg aaaaaatcta cggtttaaga tttacaatc 180
 attgattatt caatgagtaa aatcatctat ggagctaaga taatgtatat tgaaatatat 240
 aagttcaaca cttacagttc caatgattgg agtcccaata ttaacaatta ttaaagtcaa 300
 atcacacaac tc 312

<210> 33121
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33121

ctcagctata caattataat aaaagaacaa tgacaatnga atattctata catgtttcct 60
 ttgatgagtc taatgccatt cttccaagga aggattttct aaatgatatt tcagattcct 120
 tagaagatac acatattcat ggaaatcatt ctaaagaaaa agacgaagga agaaatgagg 180
 attctcaaga taatggggct agaggaaata atgaacttcc aagagaatgg anagcctcaa 240
 gagatcatcc cctcgacaac attattggtg atatatcana aggggtaaca actagacact 300
 ctcttaaaga tttatgcaat aatatggctt ttgtatctat aattgaacct aaaaatataa 360
 tagaagtc atgtacatgat acatggatca 390

<210> 33122
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33122

agtatccttt atatgctttg tcttttattt ctctaaagta atgatcgaat atgccaaaat 60
 tatectatgc gtagaaaaca tgtgatttct tctcaaaaaa ataaaatcac aggggttagct 120

cgcctaggcg agcataccct actcaaatta gttaaaaaag agggggggag ggtgagtttc 180
 ttcacccaaa acttctccct ttcactcaag aatgccatca cccatgggac tggccatcct 240
 tcactcctag ttcaccattc ttttgcggtt ccaatcccat tntgcattgt tgatcgtccc 300
 caacaagtaa gttcctcatt cttggtctct ct 332

<210> 33123
 <211> 218
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33123

gacacataga aactcacgct tcaagaaagg cccaactctc cttagaaatc atatntcatg 60
 tttaaataagg tggctntggt cgtgcttggt cgcttagcgc aattctgaac cgcttagcgc 120
 gcattagtga attatggctt agtgtggctc ttctcgctca gcggatggac taaagcggtc 180
 tgtttagcgg gttgaccctt ctctcagcta atatgcac 218

<210> 33124
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33124

agcttggttc tttctactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
 cgtcgaagaa cggtcgaata ctttcgcaa attcctcacg gaaatgtttc ggaagcgcct 120
 cggcttagat tntcttcacg gaaacaattt ttccaagcaa attcgataga gcgagaagtg 180
 cctaaggggc tgaacccttt tccacttcac ttctccct atntatagca aaatagggga 240
 gatgcttgcc gccagctcg cccaggcgag canggttget tccttcagaa caacagcctt 300
 ctggaggaat cttctggagg gcccaagt 328

<210> 33125
 <211> 283
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 33125

ntcaccagat catataagat aaangcattc tttcatctgt tatatatacct ccacaatgtc 60
 aaattctctg cctatatatt caacctttcc atcactggca caggagtga tcttcctcca 120
 tgggtgcaata ttaaagttat attgtcatcc attcctcaca atcagaaacc acanacattg 180
 ccatatatta tgaaataaaa aacctaactc atactcaaac ataagcacat cacacaacaa 240
 catgcaatgt catctattaa aatagagcat catcaatgaa aat 283

<210> 33126

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33126

agcttctctt gtgtcatttc ctgcgaaggc aaacatttgg agagttagtt ntaccaagaa 60
 atgctattct taaaacgaaa atggcatacg acctcccca ataacacaaa catcaatgta 120
 aatttagagc gaactcatgc gcatacttcc tttcgaacat tcaactgcac cagatattct 180
 tctaactaag aaaaatgcac ccaggcacia tcaaggcacc ttcgttacct agatcactta 240
 tatgtacttn caaggtgtat ttgctaccta catcacatgc acttnctttg ctaaantnac 300
 atacatgcat actcaaagca ttntggctac caaaaattgc atacgtgcac attctggtat 360
 ttctaatacc tatacatata caaactntgt gatgaatctt ggctacctac acaat 415

<210> 33127

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33127

cgctntatgt gatgaacatt ggttaatggt tatgcatgaa gagtttattc aatttaagag 60
 agatgatgta tgggatttag ctcctaaacc aacctctcac aagtcaatcg gaaccaaag 120
 ggtgtttcga aacaaacttg atgaatctga catcacagta aagaataaag caagattggt 180
 tgcaaaagga tacaaccaag aagaaggaat cggtatgat gaaacctatg ctctagctgc 240
 aatgtagaa gctataagat tactactttc atttgcttgg attatgaatc tcagaacttt 300

<210> 33130
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33130

agcttgacag acctgcattt ttacaccgac cgagttacca ctcttgacac tagatgacac 60
 ttgtccatgc ttgggggctc gaccgactcg tcccccttct atttgtcatg ctacatgaca 120
 ctacgagaca cacatcaacc ctccatgtca gccttgatgc aagagcatga acgcctagcc 180
 catagcagcc cgactcccca actaacaagt tatctctaac ctcttattat ntgaacataa 240
 tggcatccct ttatctcttt atgggtattc aattgtctat 280

<210> 33131
 <211> 545
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33131

nnnnnngcgg ggnccggggn nnaaattccc cnanngatnn atngannann aacnncnacn 60
 ggaggggagag agggatagag agagtgagag tggcattgaa attgaatgat aatacggaga 120
 gaaagtggac gtttgaagtg tgtctcacia gtttctcatt catcagagtt gtgacaagtg 180
 ttacacatgt ctctatttat agcctaagtc acttacctaa atgggaattt cattttcatt 240
 tcatgtgaat ctaaaggaat attncatgaa tatgccaaag gcatcttagc atattccctg 300
 taaatgccac aagcatggaa tgtgtgactc tagcacatgc gaagcttcct tgagatgcaa 360
 cgaaggtagc ttccttanga agcaaggaag aaagcttcct tgagaagcta gggggggggg 420
 gtggaggncn nnaactccnc ggaatacggg attgtagtat cgtctctcag cctggngggc 480
 taaatatgtg tgaatacttt tactccaatc ctctgttgg agaattcttc aaataatgta 540
 gtccg 545

<210> 33132
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33132

ggcagatatg ctgcatgaac tganancaca acngaanaag gannngngaa gaganggana 60
 ggataggttc tcattaaccc ccacaggaag agggagggaa tacgaaccaa ccacaccccc 120
 caaacaacc gaacccaaag gggcgccgaa caacctgaga cccccacag agcagaaaca 180
 ccgcgaccgg eggcccaagg gaaccaccac aagaaaagga ccccgccatc catgcacccc 240
 acggccggac ccgcgacgtg aacaacaaa agaagcctac tgacacatcg cggagaaaga 300
 aggacgcacc acaccgaagg aggccaaaaa gcccccaaa tgaggccggg agagaaaaga 360
 gagccaccac cacgggagag agcgcttaga aacacccaac gccgctacaa caaccgcag 420
 agcctacggc taccaccaca cccggctagg ggcaaggaag acgaccccca tataagacac 480
 acgg 484

<210> 33133
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33133

agcttagtan atctaatttc tatcacgtct ggcttaagac gttaaagaag cgctactaga 60
 aggcaaccta naattggcta cgaagaagct ctctgcgaag cagtccagga aaggcaccat 120
 tgaagagggg tctagtgtgg cccacaagc tgacacaggt tttgacaacc accgactcca 180
 gagcgtggaa cattagtagc atttcgaggc cactgagggg tggtcattcc tcaggcagag 240
 acaaaggcag ctaagggatg atgaatttcc agatttcctt ggaggaggcg gaaccataca 300
 atcgaaatca ccaaacttgt gatttatcct tcattactgc tttcaattat tctattattt 360
 tggatattcc tttgtgatat aacattatct gcttccaatt gttatgccca ttgtgattaa 420
 actgaacatg cagttatctg 440

<210> 33134
 <211> 503
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33134

nnnccggagc agcctancca cagcgcaccc ttanattcta agcctncaact gatgtgcagg 60
 gcgaggcccc ttcggttgc tgtttcattt tacggctttg gcctttgttc ttccttgcca 120
 gatacatttc tctatgtaca cttgccgtag gctataaccc taccctaaact ttccggcggt 180
 ttcttctgtg cctaccangc ttggtcttgt actgtggtct tgccaaaacc aatctatggt 240
 tggaaccgta cccaacatta acccggccac catcattgtc gtatcaaaca agaaagcttg 300
 ccagagagga atctacgaaa gcatgcttac taccttaacg attggaatc atttccatga 360
 cttctcgagg cttcacatat ggcgagagaa ggggaactac angacgtctt ctactgatac 420
 tatacaaagc tctcactat aaactcactt tgggtggatgt aatggaacac tcaactgatga 480
 tcatggcccc aaataacaat gag 503

<210> 33135
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 33135
 cattggttac tgtggttcgt tggcaaatga tggttgtgat ggtggttggg gtgattgtta 60
 acggcggaag taaggacta caacttcgat ctagtttttt tccgtataaa acttacaagt 120
 taataatccg tatattatat aaaacttatg gattatcaat ccgtcaatta tatataacct 180
 acggattatc aatctgtaa aagacaatcc atatgaatta tgcgaatttt cagtaatccg 240
 tatagtccat acggattctc aatccgtata aaccagtgtt aaatg 285

<210> 33136
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33136

gagtnnnan caggggnggn ancctcnggc tagcatgac cccctgnana tcaaanannnn 60
 nacnnnnccc nnanncnan agagagaacc cacacttcac ttgtttcctt tcacaacgca 120
 cagaggggtg cgagtcgaat taaacatgaa tgcattacca tcgatagttg tgacagtatt 180
 gacaccacat ataacattca tctaagacat aggggtgaat cacatctcat attcattaag 240

agataatact gcttatcttg gcttgcccaa acatcttgga atacaaacgt gttaactgga 300
 actacttatg tgggacatcg actctatcat atggagaaaa tattctgtta tcccattaac 360
 tctctcaaga gccgaggata ccgctggcct gtctttggat agattctaac atcgaagact 420
 ggactccatg ctagtgaagc tatccatgat ccctagatac tgtacggcaa gaggtgtaga 480
 gatatacgat gctatgggtg ccaaccatct aatctgcctg gcttccg 527

<210> 33137
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 33137

gattaaagat caatatgcaa ctgatgaatt agtagagtga cctctaatat tacttaagca 60
 tccttgcat aattgctgca aaccgcact tactgctgc accttgatag aatatgaaga 120
 gataggactt tcaaaatgta ctaatagaga ttgtaattga acacaacaat ttctatgtat 180
 aagatgtgtg atacttagat gtgtatt 207

<210> 33138
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33138

agcttgagag ggtgttgggt gatggaaccc taaccctagt ggaattggga tcgagttgag 60
 gaggaagagg agagaganat tgaagccgaa agaaagagaa ggatgcgtcg tttgtatgtg 120
 tggtaccaac gaactccttt tactgagaat tgaggcaaca tcggaaatga agagaagaga 180
 aagaggtaga gagagggaag agaaagactc anagaagagg caaagagagg gaagacaaag 240
 aggcagagaa gagcagagag agggaagaag catgaccagt gcgctgcccg atgcgagaaa 300
 gagaaaatca caataacaag aaaaagccta ttaacaactg taatgagaga gaaa 354

<210> 33139
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 33139

ttcttcacta gtaatcgatt acacatttat attntgaagg gtcattgactn ttcaacttga 60
atatcaagaa tctcgttgct ggtaatcgat tacaacatc cggtaatcaa ttacaagtnt 120
aaaattcaaa ttcaaaaccc tttttaaaag ttttttttca aaattgtatc ttggtaatcg 180
attacactgc ctggtaatcg attaccagag ccttgatctc ttggaaacac ttgttntgaa 240
gcaaaagctt gatcttgaat taatcttgaa gcattgcttg tttgggtgaag caaccttgta 300
tttatcttga agcaatgttt aacctttgaa tgttngttga agaattctga aaacaacctt 360
gtttgattat tctttg 376

<210> 33140

<211> 326

<212> DNA

<213> Glycine max

<400> 33140

gagctctaga ttgaaagagg agaatacttg ttttaagagac aaattgacaa cgtcagaaga 60
caatgtcaag acattaaaaa atgtcatgct tgcatacatc caaatgaagg aaggatatat 120
tccttttgag ttaggtgcta tgtttggtca taacactagt aatgtaggtg taagtacttc 180
tcttagtctt gtgttacatt tgatatatta ttaacattcg acgtgaaaag attgttattt 240
cataccatga atgaagtgga cataatgtgc caacaccaag aggaggctca tcattagata 300
cgaatctcca tgcaacttga catatg 326

<210> 33141

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33141

gggcaccgga ctacgattca tagncnnacg cgacacttag aaactcaacc tgatgcatgg 60
cgtcagctct ataggatgcc atatacctta ctgctatctc cctanacaga ggcgcggaca 120
atcgattgtc tcatcggcaa caccacagag actgacaana cccagccttg ccgcaggctt 180
atcaggtgcy tactcatcca gctttggact ggggcgatat agcgaacaag ctcgagcgat 240
tgccctgtcct caagaaaaca ggctgaacat cattagggca cgcaccttaa cttctgcgac 300

acatgaagct ggattgcaac cgtactgatt acccgatgtg aatcagttcg atgcgcctgc 360
 tgggctgccg tagacgttta gagcggcaac tcgaaacttt gtctacatga actataacaa 420
 tgtccttcct ataacttaac tgttggggag gtcactgacc actacaacgt tggcactggg 480
 gaccacaat gatgtaacn 499

<210> 33142
 <211> 275
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33142

agctttaacc tcattgtctc tcacagacnc tagagaaggg agcgggtgca ttccttgtgt 60
 ccggactctc aaccacttat gatagccgcc gatgatccca ttactgcttc cgactagctc 120
 tetgaccttt cttaacgccg cataccatgc cttgcgaact ccttggagta ccctagcatt 180
 gtggtcactg aaacctcgtg cgatgaaagg cgtgatgctt acgtctgatg gtgctcctct 240
 catgggacat tcttcgcatg aagatagaat cctga 275

<210> 33143
 <211> 516
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33143

gnnccgctga taggaaaagc tgnangtach nntagnanna tctgacacac tatacaccac 60
 tcaaccgncg tgatgaagag tagagggact catgtagttt ngataatgat tcacangacg 120
 acgaacagcc caaagagtga tttcaagatt gactcaaccc ctccaagatc aagtttaatt 180
 tcaagtttct tgaaacagag atcacgaaga ttccagattc tagagacagt tgacttcaag 240
 attcaagaga agatgaattc cagttcagga gaagaaatcc caagactttc ccagggacgt 300
 ttggaaagat tttcaaaaac aaccttgcc tgtcttggtt ccaaagaagt ttcttacatt 360
 ttttaactac agaagtttac tctctctatc catacccccg gcaagttggg ttctagcggt 420
 caccggattg caccatccat cgattccaaa tgggtacctt tacaggggtg ggatccgtcc 480
 ccgtgtttta cttgatttca aacattggga gtgcct 516

<210> 33144
 <211> 306
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33144

 agcttgtaat gttacacagt cctacaaaac tccgaatgat cgttggtctt catattgtnt 60
 tggtaacgca aaccgcccctc tactacttca actactgttt gaggccactt gtcccataat 120
 tttaaaacaa tatatatatt tgggttgaat ggttcatgct ataatagctt tcagaaattc 180
 accccccctc ttaagttatt gaggccactt gtccaacaat tttaaacata tatatatata 240
 tatatttggg ttgaatgggc atgctatcat agctctcaaa tattcttgaa aataatataa 300
 ttggat 306

<210> 33145
 <211> 395
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33145

 gggggggccgg gggcctgnng nttcctgtnn caaaacttcc aatagcttgt gggccatctg 60
 caagcatatt gttggttttn accacggacg tacttaagca aatggataca ctctccataa 120
 tgaacatcat gatattacag cagctatcgc tatttcttac aacgtatctg ccagaattt 180
 ataaccgaaa atgcccgaat aaataaaagca ctcggaacaca atattaccga ctacatgtgt 240
 ttgtacttca taacacttcc tggctaatta atactcatct aaacgtttgg gacataatgc 300
 ctccccattg tttatatctt catccccctg tgagatctga attaccaaac ggctattagc 360
 ttttagaatc gtctagcgat gattaataat tcttc 395

<210> 33146
 <211> 514
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33146

cccacgtttt ggcgtcncga nccgactgan nacacanacc ncaacattgn caggagctcc 60
 agcttgaccg cgcggtatca tttggcggtta gtccaggnac gccggggtc atttaaggac 120
 ggacacacga atcgaaagac cnnaagaatc ccgcctgtcc nacttcacaa cagcgtaagt 180
 attttgccc cataccgcgg attgagtatg gcaccccaca atcgaacaag gtaaccacaa 240
 attattcgca cacacctgga ccccggaac acgcgggtca tcattcatca atctcagccc 300
 ccactggcgt atccaccaca agcctgaaac aaagttgatc gcaatccctc cggcatggga 360
 ctaacgacga aagcgacct cctcccacgc gttttccggc tacacagacc tcaggcactg 420
 ttectcttgc acgtgtctg gcctccccga gacgccagag cacaagctc ctcccacac 480
 ccggaggacc caacggaaaa catgagcgcc gacg 514

<210> 33147
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33147

agcttgtatt ttagtctctg atcggnatc tttcctggcc gacgccgact gtcatttttt 60
 tcgatcaata tcggtgaata atattttttt gccgaggtgg gctaattgtt tcttgccga 120
 atgaatggga acatgccaat ttcggccgaa acgaaacatc ggttgagctc gcacgaaaaa 180
 acctatccga cctacattgt aagtttttta tgcaacgccg aaacaagaaa acttcccctg 240
 ccgtaggaaa aaacattatg ggcagcgagc gttattttta aataaaaaat tgcgcaatgt 300
 cggctgaaaa atatcagtcg gggccatttc acgaccgatg tcggttattg tgttttctat 360
 tcaatccctg aatgaaatat gcatgatgtc gatcccgaaa tgtntgat 408

<210> 33148
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33148

gagttagtta tgaatattan gactttacac tngatgttgg tgacactcct tctttctaca 60
 catgtatgcc tttcatgtaa gcagaaaaata angtgtaatg ctcgatgatga aggcttatgg 120

gagaacattc ctatctgatt ggcatttaca taagtaatgc ttatgttatg gtatagttaa , 180
catcattntg ttgcatatth acactctata ttaacttaat ttgtatagat gcaattgcc 240
ctaattgtgtt tattattnta tttgtatagg aacatggcta caccaccaag ctaccttcct 300
cctaatcncc agcttctata gagtctacct ctaggaggac taaacaatgt acacggctca 360
taag 364

<210> 33149
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33149

aggagggaaa cagtggctct gaatgctctg cctaaaaacc tngaaannac acagnaccag 60
gagangccgg accagncgac ccgacgcacg cgaaccacg gtttagttgc caatgcctac 120
cagccaacac aggggaggag cccgaggcac gcaaaataag accacaccag acttcntgag 180
aagaaccatc cgcaagacaa acgagagaca caaccgtgcc aaaaatccca caggagccac 240
agagtagacc gcacacaacc gcaaagggt gcaccagaac ccctcagaaa aaaagcaaaa 300
cccgggataa cgcccacccg catattcagg agcaagcccc tgcggaggag tagaacaac 360
caaagaagca cctccacca cacacgcaa gagcacagca agccagggaa aaccgacagg 420
cccgacacaa ggaccacaaa gagaagagcc atcagattaa cggagaaagg gacgcaccac 480
gcgacggcag gggaagaccc cg 502

<210> 33150
<211> 281
<212> DNA
<213> Glycine max

<400> 33150

gcgaatcctg cgctaaaggc gtgatcacga ccatacttgt taagccaaa aagtcgctt 60
aatacgaggt cgctgagct tacttaagcc tataagagga gtaggaagca cacgaaaaag 120
acacaccgag actaagagtt atctaaagaa tacatactat gtctgagcat cccaaataag 180
aaaaatcttt attctatggc aatcattccc gtcattctac tttattcatt taattcctta 240
atctattcac atgacctttt aaagtatgaa gcatgaccat g 281

<210> 33151
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33151

agtacagtac cattcanata taaaagtggc cncattctat catatngcaa tnaccaagct 60
 gtctggcttt gacgaggaat taaaaaggaa aaattctttt aatttttagcc ttgttaaaaa 120
 aataaaaaat aaaaacactg tactttttatc ctctaccaca tagaagccac tatgatactt 180
 aacgagctct atctagcatt ttggactcgc ttaattaaat gagtaattga aggactactc 240
 taactatttt ttttttttac cagcgtctat aaacattagt taagaaatta aaatatatat 300
 atatatttat tataaaaatt atatgagagg gtcaaaaaag tatgaagaat atatttatac 360
 tatctataaa atatattgtt ttaattttta actatgtctt agacatc 407

<210> 33152
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33152

acgtaaactc tatactagca ctancanctg nanaacnaca aacngtgatg ctgtaagcga 60
 cctgcatgca tgcagccaat gtgtcttaag ctattggcga ggacaggggc gcatctggt 120
 gacttttact tccgtactgc cttcggatcg aacgtcgaat gctgcatggt cgttaaacc 180
 tgtccgtggg aaaggttcaa agttgaacct aggagctctt aactagtatg acacacctac 240
 ttagacgaca gcagggataa cttacccagg ttacttttgc attttggagg aaaagtagat 300
 gccatacctc aggacntgcg actatgctat ttctgacagc atgtacagaa caacactgta 360
 cctaatacgag atatcacgtt acttaggagc tcgcatcccc gcttcaattg gacgcggctc 420
 acgactaggc tgtacaccat cc 442

<210> 33153
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 33153

cggacgttna acgacgatga ctgangncan nnnnnngacc gggagcgaac gaggaccgac 60
cggacgaagc actttcattt ctcaaccgca aacagaaagg gcggggcgca gaacaccaaa 120
cagaccccc agaggcaacg aaagggggag gaaccaacgg cggacgggga cagcccaaan 180
cacagaagcg acaagacaga ggagaaacgg caccgagaga aaacaacaag ccgagcagca 240
accacacaaa ataacacccc caccgacgca agaagcgcg tagcccgacg agagaccaaa 300
aaagccagcc gacggcgcac gtgtaaaaca agacaacgag caacaacgac aacacatgct 360
cagcaggaac ggaagcaaag aagaacacga gaaaaggacc ccgcgcttaa gaataaccaa 420
aacaacacga cggcccggcc aggcgacagc cgcaaggaaa ccgcggen 468

<210> 33154
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33154

agcgacgacg tnttanagca tgcttgaaac tggaaaancc gccanaccgg ggtcccaaga 60
gctaacagcc gccgccactt ttttcttcgt tctggacaaa cagggggggg ggatgtcgga 120
aatccatata tctctagtca tctcctcatc atagacggtg atccatcctc acacaagctc 180
tattgatgaa ccaccatcat gagactcgat ctctagaaat accctaacgg aaacgtctcg 240
ctctacactt gaagaccac accgctgatt tctcagcat taagggtacaa actgccctag 300
catgtcatat gcttgacatt cgtagacta ctttctcact atgttagtta ctgtaaacac 360
ctgtgctact aaactattgg cgggatggca aagtaaacgg actgggcac aatgaacact 420
ctacggaaca gttacttacc ataaccctca c 451

<210> 33155
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33155

caccttatct gggggagcct aattctaaat gtngtatttg tgctcggggn tatcattcgc 60
 tgaggggtga ttatatttat atatttatcc ctatacattn taaaattntc attnttattt 120
 ttattttttt atttctcaat ttataagtnt aagatgacat ttggtatttt attaatnta 180
 cttataatgt actaatgttg atacgactgt agagatatta ccaatcctta tttatttaac 240
 ttctccatga agattgtaat tatcaatcct tattacttta aatgcctatc agtccatttt 300
 cctttntgca aatttgaatt ttcgccattg gctaaaaact gtactagaat atgaatgaat 360
 gtgaattgat aatgggtgct agaaaacatt gtagtgcaga cagtagatgt ggcttggtag 420
 ctaaaagatt ggactatatg tatatat 447

<210> 33156
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33156

agcntttcnt ttagnatana cttccttga gaagctaaga gctngaggct acaccacacg 60
 cccttattaa tggactacag cttaccttcc tctggagata gcttcctttg gagaaatttc 120
 cgttgagaaa gcnnttcctt gagaagaatt cctagagaag ctatgagctt atctacacac 180
 acctctctaa tagctaagct cacctccttg agaagagaag ctagagccta gctacacacc 240
 cctcataata gctaagctca ccctatgaca aaatanatga gaatacaaaa gaagtcctta 300
 ctacaaagac aactcaaaat gccctgaaat acaaggctaa aacagaatgg ccaaatacaa 360
 ggcccaaaag aaagaaaaac ctattcaaat atttacaag aagagtggat ccaaccttgg 420
 cccatgggct cagaaatcta ccttgg 446

<210> 33157
 <211> 318
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33157

ctatcatgag taaagatcgn ttacccactc attaatataa ctagcttatt gctagcaaaa 60
 tcgagtcata ttcatagtcc tgatgctttc aatgttaatt tccttattgt ggtaatgctt 120

cttctgatga tgagatggct tttgatctga ggatgaatct tctccacccc aaaaaggatc 180
 ctgcagtgca agattgagca nagttgtacc aaaaaagtca tccgtgtcca tattttaaca 240
 aaggagtaca ccttttccaa tggaaacgac cttctaagga gactgcattc cctactagca 300
 atgtgttgaa tgatattt 318

<210> 33158
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33158

aggatggggtt gttgtatgct ganactggaa aaccanacnn ccgtgtccan agagcgaccg 60
 agcagcaact tctataattc tacaacaac gggaggggtg gaaagaaaat acacctattc 120
 ccataatcta gcagctcgca gcaactgaag ccttgccaca tataggatgc gaatcttcga 180
 gaatcctcac acaagttgcc taaaataaag gttacactga cccaacactt ataactccaa 240
 tggccaggaa tagacgcta ctattgaaag catagactag aagtaacaca atctccaagc 300
 tcacactgga gaatatgcat atgaactagc tcatctaaaa gactaaacca cttgaatatt 360
 cataacaaaa aagaccacc tgatcttatt ctaatgaaag cn 402

<210> 33159
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 33159

agcttctgat ggtgccctat tgtgtgctgt tttttttttt agacaaattc ccttagcaat 60
 ccccaaaatt aaggacttat cataacttga aacccttatg ctttcttaga accctaaaac 120
 aagggtcaagg atatcaaaat taagctcagg ggtttattca aacaaatcat tattactttt 180
 gggtcaacag ggggtgaagg gataaattca tcacagggtta gcttttttggc tgagtggcta 240
 aaataaaaag aaacatggcc ttgatcatat ccaccttatg taaataatct aacagtctaa 300
 gaatgatgca aaattaataa tttaaaaaca gacgttctct cataattaat gtcacacagc 360
 tcaccgggac aagataaagt tatcggctta ccgaaccatg atctc 405

<210> 33160
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 33160

atgagttctg gttgcaacct tgtctttcca tttttttatg tgtgcatatc ttttcattct 60
 cgtctccctt tgccaaaaag aattcgacaa ggactaacca cctgaattct ttttgtgtct 120
 ctctttctcc ttttctaaaa gaacaaagga ctaatcgctt gaattctttt gtgtctccct 180
 tctccctttt caaagaattc aaaaagacac agtctgagaa ttcttttgat tcttcccttt 240
 cccttaaaca aaagatttca aaggactaac cgctgagat atcttttggt tccccttcat 300
 aaagattcaa tagactaacc cgctgagaac tttgtcttaa cacattggag ggtaca 356

<210> 33161
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 33161

ggtttgcatt cttggtttta caatctatat gcgtcggctt aagaggaata ttagatttat 60
 gttatctttt gtttatccaa tagtacttgc ttatagtatt aaaactttct tatacctttt 120
 tttttttctg taaacttata tatatatata tatatatata tatatatata tatatatcaa 180
 agtctattga gtgtgtggga cactctacaa ttattctcaa ctacatataa catgatcatt 240
 ttatgttcat tgaaaattgc gtcttaactt gattttcatg attgatgtta attatcactt 300
 aatatcttgt atagtataaa aaatatctac ttaaataaat tggcatgacc gttatgatcc 360
 tttaaggaaa aaaaattgac cg 382

<210> 33162
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33162

gggaggnntt tgtgcctent agcactcgaa aaccngaccg ggatcttaca gggacctcag 60
 atgcaaccgg ctgctatctc tttgtggaca caagagcgta gccggagtga accaaccgtg 120

ttgtaaaagg	acttgcatat	cttcttactt	tttgccagta	ggccgatctg	ttgcattcct	180
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gacatcttac	taccctggag	gactactagc	cgcaaacctt	caccagccat	atcttaaagg	360
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<210> 33165
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33165

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 ctctttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaadc 180
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 tgaaccttat ggtagatttc tgagcccatg ggccaaagtt ggggtccaatt atctttgtac 360
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<210> 33166
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 33166

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 agaagctaga gcttatctac acacacctat ctaaaaacta agctcacctg ctggagaagc 180
 tttcttgaga agctagagct tatctacaca caccgctcta ataactaagc tcacctactt 240
 gagaagagaa gctagagctt aactagacac ccttataa 278

<210> 33167
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33167

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 caaccatggg aggagctact tgtgccgcca aatccctcca tcgctgcgca tattctntaa 360
 aagtttcacc ctctttcttg aacatattct gcagttgagt acggtcagga gccatatca 419

<210> 33168
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33168

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<210> 33169
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 33169

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<210> 33170
 <211> 315
 <212> DNA
 <213> Glycine max

 <400> 33170

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 ttcttcatgg tgtcttgtgc cttttgaaaa cgatgttgta acttccggtg gatctcttga 300
 cgcgagtgta gcatg 315

<210> 33171
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33171

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 caatatatta tgcgcctgaa tctgacctcc gtgtggaaag ttatgaccat ttgaatttct 180
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<210> 33172
 <211> 375
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33172

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 aactaaacac tctaacaatt gagacaaagt ggtgtcattt aatcctcctt catatggggc 360
 atgatacaac tcaca 375

<210> 33173
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33173

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 gctttaacct cgtcatctct catagtctnt agatgtggga gccaatccaa tccttgtgtc 360
 cggtctctta gccgcttatg 380

<210> 33174
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 33174

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375

<210> 33175
<211> 125
<212> DNA
<213> Glycine max

<400> 33175

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gaaag 125

<210> 33176
<211> 416
<212> DNA
<213> Glycine max

<400> 33176

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actttgggct tatcgtgaag agtcgtcgct agcgaataat catgctcctt aaatgt 416

<210> 33177
<211> 117
<212> DNA
<213> Glycine max

<400> 33177

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tcccagcttc ccacattcaa gtatcgacat caacaacaca actatacagc caaaaac 117

<210> 33178
<211> 51

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33178

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<210> 33179
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33179

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 gctgcgggtt ttatttcaaa actctatgag tacacgttcc ttttggttgt gacttctcac 360
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 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33180

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 accgaagcgg agtc 374

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 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33181

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<210> 33182
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 33182

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<210> 33183
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33183

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<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33184

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<211> 270
<212> DNA
<213> Glycine max
<223> unsure at all n locations
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cagcattgga tgattctaaa gacctgtcaa ccatcacctt gcgagaactc atatatgctc 240
tacaagccca ggagcacaga ataatgatga 270

<210> 33186
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33186

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caagttgcac acataaaatg tggtaacata aaggtatata caatatggct cacattaagt 240
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<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33187

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tgcaatagtg tgtatacata ggtaaatata aggagcatga aattcctagc aaagtgtgaa 240
tgattatctt cctaaatgaa tgcgatgatg cacgaaattc ccttttgaat gcaaaagtgt 300
gtgcataatg taaatagctt gccgatatga ataaatgtga atgaaacaat aaaaaanaaa 360
tttgtatgat atatatntca aacatatgt 389

<210> 33188
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33188

UNITED STATES DEPARTMENT OF AGRICULTURE

WATER RESOURCES DIVISION

NATIONAL WATER RESEARCH INSTITUTE

WASHINGTON, D.C.

20250

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<223> unsure at all n locations
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 <211> 332
 <212> DNA
 <213> Glycine max

<400> 33197

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 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 33198

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<211> 399
<212> DNA
<213> Glycine max

<400> 33199
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<210> 33200
<211> 338
<212> DNA
<213> Glycine max

<400> 33200
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 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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<210> 33205
 <211> 318
 <212> DNA
 <213> Glycine max
 <400> 33205

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<210> 33206
 <211> 292
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 aatgtttgaa aagcatgtat gaaaatgatg aaacttttgg agaaattttt aaaattgtga 120
 aaattcttca gaaaatggtt tctttagaca tgaaggcttt cttttcaaag aaaaaaatt 180
 gtgtgtgcct aaatgttcta ctagaaattt gcttgtttgt gaagcacatg aagganggtt 240
 aatggngcat tntgggggtcc aaaagaactc tagaaaatta caagaacatt tt 292

<210> 33207
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33207

agctncttgt ttactcgtc ttggtgctca gaaaattcaa annacanac cctcttatta 60
 ctaggctatt tgaattcttt agttcctgaa tgtacaacct tcanattggt gctcgttccc 120
 ctctttattn tctggcaaaa ataaaatcaa tatcaaagaa aacagagaat tgtcatgggt 180
 attattactc gaaccagaag gaataacatc taaacaagtc attntattct tagaatgtga 240
 aaactctgca tatttatgga gaacatggng tatggaggca cgtaagtatg tgaataccac 300
 aagtcattnt ctccaattca agggattgat taattgctct aggaaaaaaa catacatctg 360
 gtatattggt tggtttgag ctgtttgag catttgga 398

<210> 33208
 <211> 225
 <212> DNA
 <213> Glycine max

<400> 33208

tggaaaaaaa ctggtactag tgaattataa cccctgggca ttcttatcat cactcaagtt 60
gctatttgca ttattttatt tgtttcctac taaaaaccaa aatcataaaa atattttaat 120
cctcttttta atcacatcat ctggtaattt aataaacttg actaattgga aatacaatgg 180
gtcctttggg ttcaatatac gaaattttga gttcattggt actac 225

<210> 33209

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33209

agacaaccgg agttttgatg attcttttgn cncncannnn annangaaca ncgggcacct 60
gtacaacgac ctgccgcgtg cgagcacgtc ttagtttttc tcaacaagca cagacacccc 120
gggggcgtta ctttgattaa cacatcccac ctattgaacc gacttttagat gttagtcttg 180
aataatggat ggacttatac tctatactct gtcattgtgt gctttatgca tctaactgt 240
ggaaagtaga ggtttgcacc cattgaaatt gtgggaagcc ctattgtttt attcaaacag 300
aacatatata gtgcttggcg agccatgttg tcggttttcg tgcaccttac aataagcgca 360
cattagcaaa ttctgataga attggctcct acgctctacc aatgattttg cagggtttatt 420
aaaatcataa gagtgcttcc cttgttataa ctatttatct tatccacgta tcttcctgaa 480
tcaggccccg tacn 494

<210> 33210

<211> 299

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33210

tcgcccttcg actgcacgtt tctcactgat ccaccnatt tgcttcgctt agcttcgac 60
acaagaacaa accctaacc ctttttctgt ctccgatcaa cacaatgtca cactgtatcc 120
gcgtgtgtgt gtttaaagt gcaccttttg ggatactcgg acgcgtggct gcgtgatggg 180
tctgggaaag gaatatcaca caatccaaac tcattggata ataagcccag tctatcaggg 240

ccaagaaact tacgagttgt tattctcact ttogtattag tatttgcacc catactttc 299

<210> 33211
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33211

agcttctttt ggaccttgaa cattcaatca actcctctnt cagaaccatg ctatgtgctc 60
 gcgactgggc ctttcttcc cttcgcaact tgagttcatt attgctaccc catagagctc 120
 cgcgaaattt gttccggcca tactcttcc tgtgagccct cttgggtctct tgttcaaggg 180
 ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240
 cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300
 ggacttcttc gtctcttcc ggtgcttcaa aattctcttc gctgacgact nttacttgg 360
 cgagccaatc taaacctcgt atgcgaactt tcagccattc gt 402

<210> 33212
 <211> 580
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33212

agcgctgtnn nnnaactgat ntcattgtat caccgtgaca cncatangaat anataagcct 60
 ntgaggggtg cgtagcccca cccatctttn ttcatagtag aagtatctta tatatgtgtt 120
 cntacncatc acgaantatt cgtcgtcgcc ttttctatc tattgnnggg gtacnncaca 180
 nntgggcccc gccagaaat cccttccacn ccttttanag cnngtgnnnt ctttgaaaag 240
 atcacgcttc cccctcttcc ttgcaaattg ttctatatat tgcattccta ttccggaacc 300
 catatcaaaa tatgtactga tacttgccca accaaaggca accatatagg tcctctccaa 360
 gaatggactc cggaagattc caagttagtg taccacgtaa cagctacccc agtaagactt 420
 tcttggaagg aatgtattac acattctcat cttttgcgta ttccccatc ttctgacaat 480
 acatctttat atggttcgtt gggaaaagaa gtcccccttt tccttgtaaa ggtcccagca 540
 ccttggaact tgggaggggt gatgatattg tgggtctagg 580

<210> 33213
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 33213

agttatggag ttccttggct ggcagaaatt tacttggata gacctaattg cgcattctaga 60
 agcgacttgc aggtcctagt ttctctgaag gcttgctcat gccacacat tcaactcact 120
 tgcaggaatt tccggatcat gccaatgtgc ttctgtctaa agatgatggg cccaaccttt 180
 agacatggat gctgtacttg atagcattaa gaaactgtca tcatgtggac tcatcgcagc 240
 aggaggagtc atcttaaaaa aatcaaatga gccact 276

<210> 33214
 <211> 277
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33214

accggcaaaa gaatcaagtg gttcttatat gatgacaatt naattatcct gctgtgatga 60
 atgggaagcc tcgggaaaat ggacagaagg agaacgaggg aggaacccat gctgtgactg 120
 tcgttcttag atggccaaat tccccactaa ctcaacaata tcaataatca ggccaatata 180
 aacccttctc attaccacc acctatcaac caacaatgct ctataagtcc acaaatgcta 240
 ccctagatc agccactaga cccacctgcc acacata 277

<210> 33215
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33215

aggannagag cncaggtga ctgatnctg aaaaactgna nnacnggnaa tnggcaaaga 60
 ccncnananc gaccngcagg cngcaagcnn gntttgnant ttgtgnaaca cccacacnc 120
 cgggggcagg gagagattca aacaccaccc caccgcccga aacaagnaca aagttnngaa 180
 gacaccacca tcacaaaggg aagataacgc caggagagac ccacaaggac caccgcggga 240

agccccgaaaa aagggaaca acgaaccag agagaagccc cagaaaaaaa tgcgaaagcc 300
 aaaagcccct gcaaggaaaa cgagcccaca caaccacgga aacgagcagc agcggaagc 360
 acaaatgaaa tcaatcaaaa ggaaaaacga aaatacaaaa gagatggagg ggccagccaa 420
 aaagctgggc cacagggaga caaagaaaca gaacgaaaaa caactggcag ggccgccc aa 480
 gcact 485

<210> 33216
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33216

tgctcatttc tgctccaaat cgcgaattgt tatctttttc ggagtctga agtgcggtggc 60
 tacgagtgtg acttcgaaaa ttcaggtttg ggtggacttc tttctctctt aaatttcgtg 120
 ggtatggggg tttgggagat atgatagggt ggtttgttag atttctgctg tgtaatgatt 180
 atttgtgaag gaacttggtt aaagcttggt gaaattgcc tgtttggatg agttagacat 240
 acccattctg ttttaggggt ttgtgatgat gtttatatgc tgaaattgcc tatggaaact 300
 gtt 303

<210> 33217
 <211> 636
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33217

tgannttcat acccncnccg nnnccgggga gtaacggatt cacnacnnat ngncnacncc 60
 anggnnga at tgnagctcg gtacgccgt gatccatcta gaagtcgacc gtgcagcgcc 120
 agtgcaagct ttgtacttat gttcgtatga gcaatntnca atgaacgttg catgaaggga 180
 ttnttatctt catcaacagc gcatntcatc atattaacac tatagggtcc cttcactaga 240
 gtctatcgat ttcaaagaat gtngcatcgt gaactagtct gataacatgt ctgctttctt 300
 aaatattgac attttgacat gttagcgaca atagcaaata gataatgtga gagcaaataa 360
 cagtcttcac ttaattgaat gttcataaga ttcgagtaca tgacatatct attatatgag 420

gtacttgcaa gcttgtaaca tgcgtgcata tctgtgagcta aaatgactta tctatatctt 480
 gtttatacaa taatagatta taacacgcat ttctttggaa ttttgtatga tagcatctct 540
 gtacaaagta acgatcgatc cagtactcca gaatgaatgt gtggcttata cgtggggcat 600
 acattcttac gaacatgagg tntggaaggt gttctg 636

<210> 33218
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33218

tatcggaagt ggaatttcta gataactctt aaacctcttc tattacactt aatntgcaag 60
 agagctaaat tctccaatgg tcatcctcca attgcaactt tggtaatatt caagaaaaat 120
 attatgtagt aattgatttg agaaacatct atanaaataa agtcagttga aagattagag 180
 ataaatttag atttgacct tgattgttga taatctcctt tgctcatgta aaatgccacc 240
 cactaagaat actcatgtat gctgccanac atgnntaggt ctattgatac ggtagaaat 300
 caacattgtt acaaataact ttctgaggta atgacttga 339

<210> 33219
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33219

agctttgnat ggtataatgt gtangacacc cctatgttgg tcagagctcg aaaaaagcct 60
 taccttatga ccagaagtgg tacatcaaac cacaagaag gtcaagtta tccaagaaaa 120
 gatgacgact gctcanagta tgcagaaaag ttatcatgat aagatgatga atgatcttga 180
 attcgagggt ggtgatcatg tattcttgag agtcactccc tggactgggg tttgtcgagc 240
 attgaaatcc cgaaaactaa cacctcgctt tattgggtcca tttcaaattc ttaagagaag 300
 ttgccctgtg gcataccaaa ttgcattacc cctctttttt ctatcttcac aatgtctatc 360
 atgntgtctc aactcataag tatatccctg atccatccca tgtgattgaa tt 412

<210> 33220

<211> 407
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33220

 nccccagtga gagataccaa gatctccggc acttagataa catcctccga gaacagatga 60
 tcaagagttt gatgaaacta atatttgaca aaaagctcca agtcgggagc ttttgtgant 120
 acaagatgat gatctcagaa tcaagaatga gntcagatga atcaagacac ttcaggttca 180
 aagganattg attcagaatc agaatcagtt tcagattcag tccaagatca gatcagattc 240
 agatcagaga gactcatcag atagttttaa aagttttcaa actggcagcc atgattttctc 300
 aaactttcca agagttttact cttagtatcg atccagatat gtatcatacc agtacaaatg 360
 tttcaaatga cttacacgtg aatcgaaaac atctcggaga ttaagcg 407

<210> 33221
 <211> 390
 <212> DNA
 <213> Glycine max

 <400> 33221

 agcttcatct ttctaataatt ctactaaac ctttggtgga ggacaagttt aaattttattg 60
 aatctttaat taatgccaaa tgtttgactg atctctaatt aagcatgata tttcatgttt 120
 atgcttttga ttgagcgaaa tccatgcttg ggtgctaaat atttgaaaaa tttgatgtac 180
 ctcggtgttg ctttaactaaa ttgggtgttg ttgccaattc ctattacatg ctcattaatg 240
 gtgattatgt ttttaccatt caaaatctat gtttttctga tatatctatt ctttctcctt 300
 ggctctacta tataaacaag tgtgggtaaa caactaatca caccactcac atctctctca 360
 atttactctc tcctcttgcc tctctggaac 390

<210> 33222
 <211> 277
 <212> DNA
 <213> Glycine max

 <400> 33222

 atcctgatga tgggtgacca tatgttctca tgattggact aatacatttg ctgcccaggt 60
 gtcattgtct tgtgaagatc ctaataagca tcttaaggag ttccatattg tttgttccac 120

catgaagccc cctgatgtcc aacaagatca tatctttcta aaggcttttc ctcattctct 180
 agacggagtg gccaaagatt ggctctacta ccttgctccc aggtccattt tcagctggga 240
 tgaccttaag aggggtgttct tggagaaatt attccgt 277

<210> 33223
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33223

ggagagacgg ccctgatca tgctatntct gtanccccgn atnngcanga ccggganctt 60
 aagaggggtga gcagnttttg ngtgnntgna ggnnnaanag gnngagnaat tttaaaannn 120
 aacccccac gcggggcaaa aaacgaaacc gcaccgncaa aaaggaaaaa ggaaaaagaa 180
 cacacaaaca cgcagaggca agacaaagac aaccacaaaa cgagaaaacg aacagcaagc 240
 aaagaaagga aagcgacgaa aggaagagga acaaacacac cagggcgccg anaaaaagaa 300
 agagaggagg accaccagac aaaaaacaca aagaaccacc aagagcggga acggaaaacc 360
 aaccacggga ccacacacaa caacaccacg aagacaaacg agaaagaaga cg 412

<210> 33224
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 33224

ttcttgatg attatgggt acccatcaca tgttgtacta ggtggcggtc gggcgatggt 60
 gcacaacaag tttccacat ccacaatgcg cgcataaacc caccatcccc tggtgcccac 120
 ctccatctaa gctcacgtac tcccatgtag cccatattct catttctctc aacaccgggt 180
 ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca aactgcacaa 240
 gctatcacag ccaagcaaaa cagagcatag gcagaaaact ttgccaaaac accaaccaaa 300
 tcacagcttt tctcacttaa agaccccagt aacaattcct tcgttctggt tcattaaccg 360
 ttggatcgaa ctcgaaaatt tactggaagt ctctaatact taagcctaca 410

<210> 33225

<211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33225

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 cctttgnctt tgtatttagt atttttttaa aattgaacta acattctatg ctcttaagtt 120
 tggcttcttt tcatacttgt atataaatgt aagggtgtccc ttccataccc ccttttgtgt 180
 tgcttggaca tgcttgtgag ntttttgttt tccttttctc tttntgataa tttgattgga 240
 catgcttgtg agttttttgt tttccttttc tctttntgat aatttgattg atgtgtgagc 300
 aatgatgggtt aggaggggag aaaaatgtct gaattctgag ctatggcatg catgcacggg 360
 ccccttggtg 370

<210> 33226
 <211> 169
 <212> DNA
 <213> Glycine max

<400> 33226

cgacatcccg catatgtgtt gttttatgac attttgcaag acaaaagctt attttatttt 60
 tggttcaacc ttctttatga gtctctattg catgcaagga aggtggaaga gcacactaca 120
 ggtgcgaatt ttatctgaaa actccatgaa tacagggtcc ttttctttg 169

<210> 33227
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 33227

atagttaaga agacccgagt aggaatgagt tgaatttatc tatgaagcat gaaattagcc 60
 gcagccattg aatcagtctc aatccaaagc tccttttaat taagctcca cgcatgctcc 120
 aaagcagtaa tgagcccca aatctctact atcataagag aacaacaacc caatttcctg 180
 gtaaactcgt ttatccaatg gccattacca tcacgcatca ctccaccaca gctagccttc 240
 tcgccaacat ctataacaga agcatcaaca ttgtacttaa aatagcccac tgaggcaacc 300
 aaacaaaaag cctatccgca gaacaagggt gcccatg 337

[illegible]

```
ggcggtgctc tgcccgatga tccgaaagac gaagttgttc ttggaacgcg ggatccaccg      60
acctcacagct actacgctgc gggaacctcc ccataggacc acaactagaa tcaagattac     120
tactaaggcc agccatgatt acgacggtct taccgactgg aggtaggcct gcccatccga     180
cgctaataca gtggacgtac tc                                           202
```

<400> 33229

acaaatcaat gcgagacat tttgtccat gcaaattcgc tcactttcta taagcttctg	60
cttattagtg cacagctcct tcaataattt accatatctt ggaatttgct ttattgcac	120
caacaggagg atgtttacct ctacttttct aaatgtttcc aagatctctt tctctgccta	180
ttacacatth ttgttgggaa ctgctcctgg aaggaatgga agatggatgt gctgcttctg	240
cgaatctcaa ttaccacggg cagaagattc acctgca	277

<400> 33230

accatttgtgt	tgtgggtgcat	atacagtcgt	aagctctctt	cgaatgccat	gttctgcaca	60
taaacatttg	catattcttg	tggagcaata	ttcatcacct	cgatctgcgc	gaagagtctc	120
tatagacttt	actagctcat	tatcaacact	tgctttgaag	cttttaaagt	tacaaaacgc	180
ttccgattct	tcctgtataa	tataaccgcc	atgttttctt	gaataatcat	caatgaagca	240
tattaagtat	ctcttacctc	cattagaaaa	tgggttttatt	ggaccacaaa	tatcagaaag	300
caccagctcc	aagacatcta	tagctctcca	tgactcttct	ttgcgatact	gagatc	356

<210> 33231
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 33231

ctgggatctc aatcaggtct ggggagtatt taaggtcaca tatctttata ttcacaaaat 60
 tctgtaacaa gaaaaaacca tcacaatggt cagaaattat taagatgcta atcacggccc 120
 taactaaaag aaaaatctaa tcattcagat gagaaaaggg tgaatagtta aacatagaag 180
 aatcgatat cgtgcattag tatacacatt gttagctgaa ttatacattt cctaagggac 240
 tatgtgatat agacc 255

<210> 33232
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33232

cccaaggcgg agttgttgat ttttgacaca nnatttggn ngggcgcgaa agcgacgggg 60
 cggcagggca gttaattgct acacgagccg aacacggggg ggtacgaacn naaaacaaac 120
 accggacacg gagagccaac caccagagg gagcgccgc agagaggaga agacagggcc 180
 ggacgagaac cgcaacacgc aagaaaagcg gcaaaacaca cgaaacaggg cggccacacg 240
 agacgcagac gggaaaaaag cgcagacccg gcgagaaaaa ggggaaagac gcgaacagaa 300
 gcagggcagg cggagacacg aaggaaggaa caagcgcaac gaccggcgac gagggacgca 360
 agtgggaaag acaagan 377

<210> 33233
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33233

naaaactggt ttaccccagg gatcggnagn acganacnnn nnnnttnggn nanacaaccc 60
 cggccangga ncagnaggga taaattgtcc aaacanctaa gtcanattat gagggaaatg 120

[illegible]

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<223>      unsure at all n locations
<400>      33236
```

gcaccggggtt gatgatcctg anctcgaatt tagtagtaca acncncgna ggggaggcg	60
aactttcttt acctgttgac acacgggggg ggtgggttta taaccacca cccaccatg	120
aagatgccag gtggacggct cgcttccac gacgctgagt gtggaacaga cctagtagag	180
cgaagcgtag ctacaagggtg ggggacaaga ccaaaggaag gaaccactcg tggtgagcgg	240
tgggacgccg tcgcggggta agaggaatga gtggatcgct ggaaggacgg aactcctaac	300
taggcaccgg gcgcgtgtac ggacc	325

<210>	33237
<211>	501
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      33237
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agcagagaga	cgagcgnttt	gttgcatctt	ttganacctt	gnanaactcg	gcnaganccc	60
cgggatcctn	agagacgacc	tgcaggggtgc	aagtttgttt	tcaacttttc	taacagnnnn	120
gagccagaaa	atagtccgt	aaattactca	tcaacacaac	ttggggacca	atgataccca	180
ctattggcgt	aatgcttgac	atacgatgac	attgggcctg	gtgcatttga	tggtaccgga	240
gcatcttggt	aaagcccgat	tttgacatcc	ttgaagaact	tatatgaaac	atacgaccac	300
ttgaaaaatg	ttgctgaatg	tagccatagg	ttgatcatca	caggtcttat	tggttgtaaa	360
gactaataaa	ctttgatgtg	cttgaaatgg	atgggaggaa	gctatatatta	taaggtcaaa	420
gatactttta	cgtctaaatg	tgaactggcc	ggtcttgata	tgtttaatgg	agaagtaata	480
tgtaggctaa	tatctaattgc	g				501

$\langle 210 \rangle$	33238
$\langle 211 \rangle$	256

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33238

aaagtatcag atactctagc acatcagtgt catcncgtgt tattagacca atcaaaacct 60
gcggtgaatc tgcctgaatg agacactctg acagacaaac atttccatat agacttacca 120
tagcctcaag gacacgctct tgaattagtt cggtgtcctg aggctataaa agagtcacga 180
aaatatacctt tatccgagtt gcatcagaat gttcctcatc ggcatcgact atttctcta 240
agaccgtgag tgcata 256

<210> 33239
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33239

actttgattg cttattcaat ggagcngaca agaataaggtt cagactgatc aacacatgta 60
cagtggccaa ggatgcttgn gagatcctaa aaatcactca tgaaggaacc tccaaagtga 120
agatgtccag attgcaacta ttggccacaa aattcgaaaa tctgaagatg aaggaggaag 180
aatgcattca tgacttccac atgaacattc ttgaaattgc caatgcttgc actgccttgg 240
gagagagaat gacagatgan aagctggtga aaaagatcct cagatccttg cccaagagat 300
ttgacatgaa agtcactgca atagaggagg cccaagacat ttgcaacatg agagtagatg 360
aactca 366

<210> 33240
<211> 251
<212> DNA
<213> Glycine max

<400> 33240

accgggtggt ctgactgaat ggaaaccga ctaacacgcg cgccttggtc ttttaaccg 60
gcggatgtct tacttccatg actggggtgc aatgtggcag tgtaagacga tactaggcta 120
tctatcctaa tactaagtga tgtcttctga aatgtctcct gtgatgacaa gcaaattact 180
aagaaaaaga actctaata ctgttagcct tgggaaccc aagtttgctc gtaccgttac 240

atagaatggg c

251

<210> 33241
<211> 496
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33241

nccacacgtg aaaaaaacct gacgnacgac nncnnntng ataanaacc cgcattggaga 60
cacatatact gcgatcgata gccaaatttt tttttatgag atgcacacaa cagccacctg 120
cttggacgag ggacaagact aggggtctca aggacgggtga taatgagaga gaagacccta 180
ctatgactac agttcctatg cacacaaagg taccatcctc ccatcaatgt acatactcag 240
cctatcacac aaattcctct gccccaccac cctgtattcc atagaggcca tacctgagtg 300
ctccacatgg tctgtctatc tctctaccga tagcataacc catctcttgc tcttacctct 360
gcaccaggct taaaagaacc gtggctcctct aatcgtggaa gattccccac acatccgagg 420
gactgtgctt gactggctct cacttgtagt cggaaattct catggatagc gttaaccctt 480
ggctggggtg cctggg 496

<210> 33242
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33242

agcttatgtt attgacctcc attntcaact ctaagcttga ttttcacttc attcttttgc 60
tctattctca cttgtaattt caaaacctta ttttgaactc tttaacgttg gaaacttgaa 120
tctcaactcc ctcatcttc cttataaact tttataagcc tacaacatgt aaagggggtc 180
tcaaactctt gaaccatgtg cttgctgttg aacttacatg aacatgttgc ttccaaattt 240
ttgagcttgt tgtcatgtcc tgaatctatg tgctgagttg ctttccttaa gttttttatg 300
ccacaaatga gttctttgca tgtaaaaaca taaagttagc ctaaaatgtc acccaaactg 360
gag 363

<210> 33243
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33243

gcttcacaat ctccccctttt tgtgatgaca accctttttt cttaaacaca tacacatact 60
 ttttcttagt cgattattca cttaattctc catattctcc ccctttgttt ttgagtttaa 120
 gcttcacttt aaattaagtt atttaattat atgagttctt gatttaatcc ctattttctc 180
 tccccctttg gcatcaacaa aaagccaaag tgcataagaa atataaaaaca tacataaatg 240
 attataatat cactagacat atatcatcaa aataattaag tttaaaaactc ataacaatta 300
 agagtaagta aatataatca tgttcagtta tactaatcaa atattaaaag aaataactaag 360
 tattcaaatg tcataanaat ataaatcatt tgggtaagtc actagcatct tgcagtccta 420
 attctcttct aat 433

<210> 33244
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33244

ncgacctgca agtttgctat cnnanatttg cgccaacaca ngaaggacgc ggacacggcg 60
 ncccgaacaa ancacaagcc gacgaagaga gcnnacagacn cggcngggga ggggggcanc 120
 gcgaacccaa accccagga gggcncaagg accaccacac acacgcccgc aaagaagaaa 180
 ccaacaacac acccgcccc acggaagaa caaacnacan acaacaacca ccacggggac 240
 gcaagaccna gaggaagac cgcgaggcac ngagcccga cnggaccgc ggcacagaac 300
 agagcccaaa caccaacaac gagaacgaca acgcgagcaa acggaccgc agancgagng 360
 ccggcgaaca agacggagg gaaggggann caaaccacga ccaaagaag acggaaggag 420
 gggccg 426

<210> 33245
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 33245

nccacgtctg tncaggttc angacgntan gcannnacgn gatantatan aacacccang 60
ctncgatcac ctaaggtcaa gctgcatggt ggntgggtgct ttttttataa ctgcctacac 120
atacgggggg agatcgatct gacaatacaa ttggacacaa catatgctac attactactc 180
aacagatgca catagaccct acctatagat gcttactagg cctgacgcgg ataaatataa 240
acagagaggt cccttcatgc tacaagcaac gctggaatct gaggaggatg ggctatttct 300
tctaagaccg tgagaggatg accttcatgt gagattatct taccatacgt cgcactagga 360
cgacgagaac gaatacttgc tgatgtatat tctatccatg cagaggtgcc acatcctata 420
ttggatatat ctccagttca atgctcctgc tagacgggtc accataagct tgcatacgcg 480
aagtttagag agcaactata gctn 504

<210> 33246
<211> 401
<212> DNA
<213> Glycine max

<400> 33246

tttctttcta cattatagca aggttcgcat tgggtccatta tactttacgg ctaaaatggg 60
tatgtctctt tgcccgataa taagcccag attatactga gtggacatga tgtacatctc 120
caatgtggcc ttctagtatg gataatcctc tctgtgaag catggtgacc tcatgacaca 180
tgctacctca acaacgaatt ggatgttgtt gttatcttcc atcaggatct tttgctttag 240
acattgtctg gtgtataacc tttataggct cagctctgat accaaatgat aatggcaaat 300
atcaaaagac ggggtgggtg attgtgatat tataaaattt taaaactta ctctcttgaa 360
cataaacgtt attgcatgat gataaagcac gttaaaacaa a 401

<210> 33247
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33247

agcttgaatt attttttgca attctcgagt agataatgca ctaccatctc tgcacagaat 60

caaatctata ggtaaanaat aaatggcact agaaccacaa gttcaactgg attttagtca 120
aaataagtgc aaatgggtggg aggcaacaac gtaacctgtt aggagaaggt ttgggaggct 180
atacaaatca tcctgttgga tatgtaatta atcttagttt agtccaagtt cacatttaat 240
cttagtgagg ttcaggtggg atcagtatcc tctcgtattc ggnggtaaca tgtacaatat 300
ataactaata taaaggggaag tttgattntc tatttaaatt tctctctttt ccttacagag 360
ttaatngtat actccgaatt tctatattat ttttgagcga gcatct 406

<210> 33248
<211> 379
<212> DNA
<213> Glycine max

<400> 33248

actaccggat ttgtatcttg gatgggtgat tgtgttctta catggagttc taagaagcaa 60
ggcattgtga cactttctac ttgtgaagcc gagtatgtag ctgcaacttc ttgcacatgt 120
catgccattt ggctaagaag attgtcggag gaacttcagt tgttgcataa ggaaagcaca 180
aagatctatg ttgataatag atctgcacaa gagcttgcca agaactctggg gttccatgaa 240
tgacagtagc atatagatac aaggatatcat ttcattagag agtgcattac acagaaagaa 300
gtagaattga ctcatgtgaa aactcaagat caagttgcgg atattatcac caagcctctc 360
aaatttgaag atttttgaa 379

<210> 33249
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33249

agctnttctt anataatggt ntccactctt anaaggggtgg ggtgataaat aatattaata 60
attaanagaa agagaataaaa atagaggaaa gagttaagat agcactaact tttgcattat 120
tggttggtatg gtttaagaaat aagataatga ggaaaagggtc acgggttcga tcgcttttgc 180
taacaagaaa tcaacaaact aaccattaac aaataaagaa agagaaccga agagtttgaa 240
ttatgagaat gtaaaatttt gacacatgta acgttatcca agtatggtga tctcgtgata 300

ttnttcaatg aaggttggcg tatagaggct ntttttttgt tngcctatga ctctctattt 360
ataaaatcat atatgtgtnt aatagaggca gataaactcc ttaatttaca aaataatata 420
at 422

<210> 33250
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33250

agctttgaat gatgcctaaa tagtggtgtg tgggtgcggga gacgggttttt ttcctctgcc 60
tgtannngng cgtaaagat tttgggtttt gacttgtgag agctgttggt ttgtgcctga 120
tgagtcttga acttatggaa atgtggagat tgtgttgctg aatttatgac tgtatgttgt 180
cttttgtggt gataggaatc aacaatatgg gcagcgttct tttcacaagt actggcagta 240
aatgacgcga cggtaaagtt tgagatttgg gacacatcat gacaagagat gtagcatagc 300
ttggctccga tgtattacag aggtgttact gctgctatca ttgtctatga catcactagc 360
tcggtatgat atctttgcat ttggatattg ttgaatacct atttaaagt 409

<210> 33251
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33251

agctntgatt caattctaac gatnanntaa cttttactcg ggatgtcccg attgaagtcc 60
cggatatatat ctgacacgcc tcgaaatttg aatgttgaaa gctctgagcc aatttcaaca 120
acaataactt tttactcgga tgtccgattt agtgacgtaa tatatcgtga cgctcaaatt 180
tgaatgttga acctctgagc caattcaaac gacaataact ttgtactcgg atgtctgatt 240
gaatcccgtg atatatcgag acgctcgaaa ttgaatgtgg aacctctgag ccaattcaaa 300
cggcaataac tttttactcg gatgtctgat tgagtcccg atttatatga gacgctcaca 360
attgaatgtt tgagctctaa gccaatcat acgacaataa ctttctactc ggatgtctga 420

<210> 33252

<211> 258
 <212> DNA
 <213> Glycine max

<400> 33252

ctctgagctt caacattcaa tttcaagcgt ctcgatatat tacaagactc aatcagacat 60
 ccgagtaaaa cggtattgcc gtttgaattg gctctgaggt tcaaaattca atttcgagcg 120
 tcgcggtata ttacgggact caatcagaca tccgagtaag aagttattgt cgtttgaatt 180
 ggctcatagc ttcaacattc aaattcgagc gtcccgatat attacggcac tgaatccgac 240
 atccgagtaa aacgttat 258

<210> 33253
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33253

agcttaaagt atgttctagt cattcatccc tacgagatgt tgttgaagta ttggcgatca 60
 gaattgccat tccttggatt ataggggtga accaagctca agcttttaca aaaagggttca 120
 tcaagtcagg ttgaaatatg gaagtaacca tcctgcaaac ttgggggcaaa agatgaatcg 180
 agtcacatca ctgcttcgtc tactgccaaa catatctagg attattgatg tccttggtac 240
 ttccagtttc accttgacaa agatgtcatg gaccatgttg aaaatctaaa ttgattcaac 300
 cccatatact gcgtaaaaat tcgcaatact tcgactgtac atcattcgca tgcattcatg 360
 cttttcattg gttgcattgc tcattgcatt ctttccttga aaaataaaat anaataaaat 420
 g 421

<210> 33254
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33254

taaggcctgt nttcgtattc aaatcacatc attgtttcaa atgttgttct tttatcaagt 60
 ccatgcaaaa acatctggat gcatttggtg tttgggaaag tccttcattg ttcttattct 120

caatgttttt tttaaaaaaa tccttttggt gtgttttgat ccaaaaataa gtttaaaaaa 180
tattggttgt tgattctttc caaaacatgt tatgttcaag aaaaattttc tgtttgagtc 240
ccaaaaagag ttataatcta taactaaact aacaaaatat caaagcagac ataaactagt 300
caaaataaac tagccgtagt ttttcaaaca aaaaa 335

<210> 33255
<211> 98
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33255

taggcgtaat caacagacac gctaaaggct ccaattacta gccttataat aaatacagcc 60
cgaccctgac actcatttca gtacgtgttg taataccn 98

<210> 33256
<211> 421
<212> DNA
<213> Glycine max
<400> 33256

tttcgagcgt ctcgatgtat tacgagactc ttcttacatc cgagtaaaaa gttattgtcg 60
tttgaatttg gttagagctt caacattgaa tttcaagcgt cttgatatat tacggaactc 120
aatcagacat ccaagtaaaa agttattgtc gtttgaatta ggtctcagcg tcataattca 180
atttcgagcg tctcaataga ttacgggact gaatcagaca tccgagcaaa acattattgt 240
cgtttgaatt agctcagacc ttcagaattc aatttcgata gtctcgatat attacgggtc 300
tcaatcagac atctgaggaa aaaagttatt gtcatttgaa tatgctgaga gcttcaacat 360
tcaattttga gcgtctcgat gtattacggg acttaatcag acatctgagt taaaagttat 420
t 421

<210> 33257
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33257

tttctataaa gtcactttgc gcatctcaag tatctcttat gttactagta acatttacat 300
 gtttagagggtg gtaggtatgtt ggcatgggggt tatggatttg cttaactcta acattaaaga 360
 tagcgctaca cataagatgg ctaaaaatat gaaagaaaaa ta 402

<210> 33260
 <211> 137
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33260

cataaatcta aattatcaaa tgtactcaag acgaaataat aataaaaactg tncaaaaagc 60
 atggaaataa aaagcctgat attgacaatg atcctgtgta tgctcattca agtccagtgc 120
 tgggtgcagat gatggat 137

<210> 33261
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33261

agctttactt tataagacaa cacaaccaag ttctgagggga actcggttcat ctgaaccatc 60
 ttcagcattt ccagcaaact tgaggggaatc cgacgatgggt gcatctgaag cacatatcat 120
 ggcagacgag caaccacaaa gggttactct tgatgattac tccagctcta ccatgccgca 180
 atttttcaca agcattgctc ggccgttagt ccaagctcac aacatcacat atccatatcc 240
 cttgatcaag ctgatccaag gaaatttggt tcatgggttg cccaatgaag acccttatgc 300
 acaccttgca acatacatag aaatctacaa tacagtgaan attgcagggg tgccgaaaga 360
 cgcaatg 367

<210> 33262
 <211> 229
 <212> DNA
 <213> Glycine max

<400> 33262

cagccttgcc tttattttat ctgtctttct tcacagctcc ttcagcagtg ttagtgaagc 60

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33265

 agcttgatgt ggaactngat ctangaagcc acatgtgaca gagataaata cttataactt 60
 attcaagtta gtgaaacttg gcggtttgcc aagaatcgga tntaggttat gtggttaaga 120
 tgaactggta taaacatcat gtgtcttata ctgattttct ctttaaaacta acttaagggtg 180
 tgaatttgat ctttgctttt gaaaaaaact gatccaataa cgctttgtta gatatgaaca 240
 aatttgataa atatttataa ctctcagata gagtattaga acggaagact tcattagatg 300
 atgaactatt gattctcagc catctctggc aatgaatgaa cagttcaaaa tgcttntctt 360
 gcgtattctt gataaagcag tgtgtatata cagatgt 397

<210> 33266
 <211> 363
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33266

 tgtaatcgat tacacatata ctggaatcga ttattatttc atattttcan gaaatattct 60
 caacagccac atctttatat gtggctcttg aatggctatc aaaggcctat atatatgtga 120
 cttgaaacac gaatctgctc agagtgtttc agaacagata ggtcttatcc tcttataaag 180
 cacaatcggtt ttcttctctt acaaattcct tggccaaatt acttgtgatt caataaagaa 240
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tgttctcttc 300
 ttcttcattc tgaagagga ttaagagacc gagggctctt tattgtgata ggattctaaa 360
 cac 363

<210> 33267
 <211> 405
 <212> DNA
 <213> Glycine max

 <400> 33267

 ggcttgcttt cttagtctag accaggaaga taaagtgatg tggacgactt ggagagattt 60
 tatgtgtgtt attaagtatt cccttaccba ccccgcaata tcaagaagcc ttttcaaatt 120

ttagctcata tttatatacct ttggatccct ggtgggatag ctttgaaaat tatgatcata 180
 actaaatttg atatccctaa acaggtggaa aaaatgataa aaggagcgaa caaacaggaa 240
 aaaaaaaaaa aagatagaca cttcttaatg ttttagatta gattgcttta aatttgtatc 300
 ggatgagaaa gtcttacatg aacatttcgc tcttactgtg agaccctaat catcattctt 360
 gcccttaat taggcttgaa tggaagattt gatctgatat atcat 405

<210> 33268
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33268

ntatcacat tcccagacac ctttagtcga agctctcatg aatagagatt ggacttgaaa 60
 tcttcaagtg ttatggagtc cttgactaca ctaagacaac tcattaaatt atcataagag 120
 ggagggagag aggctaacaa aatcatcacc aaatcttcat cttccatctt gacaccacta 180
 tcgcgtagct ccatacagaac aaagtttagc tcatcaagat gtttcttttag tggcacacat 240
 tcccttattt ggaggccaaa caaacattat tccataagca acttggttga 290

<210> 33269
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33269

agcttttgtc ttgtattcta tattatatac aatgacaaca ganaatttaa taaatccgag 60
 ctacttgctt agagaaaagg tggtagagata ctttgccaaa aaaagagccc aacatcagca 120
 aattagagaa caattacaga agtgttcaag attaagcact tgtagaactc cacttcttga 180
 tcttcacgc cacagatcaa aatgctatgc actttgccta aaagagttag acaaaagcag 240
 gaaaatacaa cagctattac actattttca ctaccttgac aaaaaagtt catatagtaa 300
 gcacttccgc agttccaaga aatttggtga ggttgaaacc ttcagaaatc acggtttaag 360
 tctgcaaag aatatcanaa ccaagttgtc aagaatatga tcctacttag aattggg 417

<210> 33270
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33270

tcaagtangg tgccctcctta nnnacctcca ttaattnttt gctttacccc ttctcttcca 60
 ttgtttgttc ttcatttttc tccatgtatc tcttcacatg tcttgtgata aatgttttta 120
 acatgattct ttaaagtttc caccgattaa acttgctata gaagctagat ttgattttct 180
 atgggtcaaa tttcttggtc ttgaaccatg aattgtgttg agtttagctt cctttgagtt 240
 ttgtcttggt atttttttgt ggctgaaacc tagaccatta aattcttaca aaaatattaa 300
 agtataataa aacctcaaaa atctagagtg acttggtcac ctattgtaag tttgtcatag 360
 aagtcatgtc tagtcatgaa acttgtcaca 390

<210> 33271
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33271

agcttgattt anatcttgat gctttggtca tcttaataac tcagcttgcc atgaatcana 60
 agtctacacc tgctgcaaga gtctgtggtc tatgttcttc tgcagatcac catatagatc 120
 tctgtccttc tttgcaacaa tctggagtta atgagcaacc tgaagctttt actgcaaaca 180
 tttataatag acctcctcag cagcaaaacc aacaacagca gaataattat gaactctcaa 240
 gcaatagata caatccaggt tggaggaatc acccaaattct gatatggaca agtnctccac 300
 aacaacaaca gcttgtccct cttttctaga atgctgctgg tccaagcaag ccatatgttc 360
 ctctccaat ancatagcag cagtcacaac aaagacatca agcaacta 408

<210> 33272
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33272

gacctaccac cacatcaaaa cacgtctttt ggtggggann nagccggaca gagcgggtcat 60
tattaacacc accaccacct ctttcctagg gaccaacacc agcaacaaca agtgggtgaaa 120
agcttccatg caagcaacaa ctacgatgca agcctcttgg caatgaacct atctgccagc 180
ttacggcaac tcaatcaact acaacatcag aatgccaccc gcggggggcga cgaccgcaac 240
cgctcctatg gtttcatggg ggagacacat ccaagccaaa cgaactaacc aacttaacta 300
acac 304

<210> 33273
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33273

agcccgaata tgcttgact gttatnagcg ngggaagtaa ttcttgtag tgatttttct 60
gctacatagt cactttttta tctcatggct gttgcattct tttaccttag caaaagacca 120
gccatagaa ggtagttgtt ttcctattgc tgtcaaagca gactaacaat atggagtgt 180
gatttctgct tgtagttgg aaggattgga aagcatctac attttcttc tatacaatgt 240
tataaatcct agacaaagcc tgattganat tgcaatgcat tctgctgcta attggtttct 300
agatgtcata aaaatgtgt taaaagccaa aggaatcaat gtattagagc attattgaat 360
tgtagtcgat gtgtctcatg atatngaaa tgtttgaact tatatgtgcc attgtgt 417

<210> 33274
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33274

gcattagcaa gctagagttt ggttactatg cgaggaaatg cactagagcc tagctgtgcg 60
ccgctaagtg agcnntgact aaatcttta cttatttttc aagatttttg catcaagttt 120
ttctccaaag cacgttgaaa tcttcttctt ttaacttttg ctaatcaaaa actacaaaga 180
tattaatttc ttattattt cattaaaaac accggtgaag taaaaaaatt gcaatcattc 240
ttagccaata ttgactatca aattaactca gattttgcag gtatcacaag gtatgttatg 300

tgtggcttca ttgagcataa ttacttacat cttttgtttg tttaagagtt acaacatgct 360
 ttntttcata tatcattatt agagaggtgg tcttcaagat gggctatcat gaaagaacca 420
 aagaacattt tcaaag 436

<210> 33275
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33275

tatattgagg anatcatttt ccaagcttag ggcattncatt nagggatttt aatgcttatt 60
 tttaaatctga acaatagttg tgtggggggcc aaccactaca aaaaaaatac tttcaacatt 120
 gttatttttaa catcggtttt tgataaaatc gatgttaaca aatgagcggg gacatttttg 180
 taaataaaact gattttgtta aaaaaaaccc aatgttaacg tgacaatatt aacatccgtt 240
 attaaaaaac cgatgttaac gtaacaatgt taacatcgag ttttgaaaaa tcaatgttaa 300
 catcgatcatg ttaacatcga ttttacaaaa atcgatgttg aattttaatg ttgtgtttt 359

<210> 33276
 <211> 186
 <212> DNA
 <213> Glycine max
 <400> 33276

cacactatat gaactaaacg tagaccagct gatgcaccct atttgatata taacataagt 60
 catactactc ttattatgta ttgtacaact atacacatag cataatatga aataaagctt 120
 aaaccattct agtacagtca ttttgaatct catcattaat atcaaacatc tatgtgtgcc 180
 acttag 186

<210> 33277
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33277

nccctagtgn aaaggggatt cccangcacn atcngannaa tangnnanca nncnccgan 60

gncacaccat gtttactata catacgactt ttgttgctat ctatccgcac gaaaagaagg 120
 ggggggtgtta tgtgttgtaa tgcaccccc accccaaaaa caatgtagca aaaagtaatg 180
 cttaagccaa tccaagcaag acattttgaa tctcatcatt actatcatgc atctcaaaga 240
 aatgaaaat catgcatcga tgtgcatagc tcaacagtgc attacaagaa aacgtgcctt 300
 ctaagccgac caagggaaaa atgtatgtat atgtgtgaac attgttcaaa atataacaca 360
 tatatataaa gatggcggag caatctagac agatgcacaa cacattccat aaatatattc 420
 tgaggatgat gtgtaaggaa atataataaa gcatgggagg aaaagctgac gggcactaga 480
 atacgaaggt gtatgacaaa tgacacat 508

<210> 33278
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33278

catttgnttt ggtggttcgt tggcaaatga tggttgagat ggtggttggt gtgattgata 60
 acggcggatg taaggacta caacttcgat ctagtttttt tccgtataaa acttacaat 120
 taataatccg taaattatat aaaacttatg gattatcaat ccgtcaatta tatataacct 180
 acggattatc aatctgttaa aagacaatcc atatgaatta tgccaatttt cagtaatccg 240
 tatagtccat acggattctc aatccgtata aaccagtgtt taatgctaaa gaagaagagg 300
 gacttacgac ggagacgatg gcgaagtcgg tgtcaacggc aagggcactc actggcagca 360
 caatgcggac tgatgcatga aaggtgac 388

<210> 33279
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33279

taaccaattc tcattgcaat cctcattata tntatgattc ttttcggtag tntttctggt 60
 aactgggttag tatagctcta caagtaagga tatacagttt gaagtaggtg tagatatgtt 120
 ttcttctact cctctctttt tatctttttt tatgtgtgctg tgcgtgagtg tgtggcatga 180

gatcctctca tatgttgta cttatcatta tagagaacgg ctgctctaga aagatcaatt 240
 agggagaaaag tcggatggca gaaattcata aaaagaggag tgcacacact aaggaagcta 300
 cagtaccagg tttttctttt agccgaagtt tgtaattgcc ttgcaacatt gtattatgag 360
 actcgatggt cttgattcta cttcagttgt gttatgttga tcctggaatt gcagtgagga 420
 gatggaacaa ctca 434

<210> 33280
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 33280

ttatttttac atttatgaca ggcagcacgc gctgatgcgc aggtgccttt actatccacc 60
 tcaactgcatg aggggtgcaag ccaagcactc gtcaggcacc agtaacaggc aaagagttga 120
 gggctatgaa acagacagga tctagtaagc gacagtgccg cacacactgt atatattaat 180
 gatacactcg aggcgtcacg cataaacaac gcctaggatt acatgtaagc tgtctgctca 240
 atagaacaat cattgtaggc ggaatcttat ccaactgtta tcagataacc gctatcgttc 300
 agaacgatcg agtccgtaca tgtaagaatg ctggctgggc cgaaaaatca catgttgaac 360
 ttcttcgtag acacttcata ctatctaag gagctcctta acataattta gagtcgtatg 420
 acgg 424

<210> 33281
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 33281

gactggaatc gataccaaac atggaatcga ttacactttt taaattaatt ggaacgtgta 60
 attcatttga aacttttcaa acatttgcta ctggaatcga tacacaattg gtatcattac 120
 agaagtaaac tcttggaac atgtttgaaa aaatgtgcta tcattttgaa aaactttcat 180
 acttatttga ttgaccttct cttgatcttg atctgaactt gatctgatct gattttgaat 240
 ctgaccttga tcttgatctg aatctgaacc tgatttgact ctaacttc 288

<210> 33282

<211> 192
<212> DNA
<213> Glycine max

<400> 33282

acgtaaactct gatagtgcga acattctctc ttttgttccc tatcaccttg ctgcacaatt 60
ctatgtgtat gacaattctg cgccgctgca tctactactg ctgttcctga tgggtcttca 120
tcacttacat aacaaactgg tatcaagagc tcaagtcgcg atcaaaggaa ttcaagattc 180
tcgtctgaat ac 192

<210> 33283
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33283

agcttttgctt atntggtctt cgccagtgaaggatcaatg tgggtccgaa aagaggcaaa 60
tttgatcatc ctactaggac gactgagaaa actggggcaa ataaaaaggg tgaggatgag 120
ggagaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aacccaacaa 180
tgtccttact cagccaataa caaacctcct ccttacgcac caccagttta tccacaaagg 240
ccatccctaa atcaaccaca aagcctgtct atcgcacttc caatgacgaa catcaccttt 300
agcaciaaac aagagcacca accaagaaat gaattttgca acgagaaaac ctatagaatt 360
caccacagtt ccagtgtcct atgctgactt gctcccatat ctacttgata attcaatggg 420

<210> 33284
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33284

gagtcaacaa gttcaagatc aagtttaatt tcaagtttca tgagaagaaa tcaagaagat 60
tcaagagaag atggaattca gattcaagag aaagaaatca agaagacttc acaagggaag 120
tattgaaaag atttttcaaa aaacaaacat agcatagttt tggttttcaa aagaattttt 180
ctcagaattn tctaagttac tagaagtttt actctctggg atcgatacca gttcctaaat 240

cgattactgt gcaagttggt tcaagtttca ctgattgcat gttcatgatt c

291

<210> 33285
<211> 325
<212> DNA
<213> Glycine max

<400> 33285

ttgcttcttg ctttcatagg gtattttgat ctcttttgg tgctctaaaa tgtgggaatg 60
tgctcaaata tgtggggcaa ttttggtttg ttttcttgct tgattgggtt ggattggggg 120
gtttgtatgg gatggcccta tgcctatgat gcattttgaa gcaatgggac atgccacatt 180
gtccccgttc tcttgctagt gatacctaaa cgcgcgccca ccaagtgttc ggtgaaatgc 240
ctcaatggca ttagcgctg acttttgtaa ggaaacaacc catggaggca tttggtttca 300
catattctct atattttggg acatg 325

<210> 33286
<211> 293
<212> DNA
<213> Glycine max

<400> 33286

ccaagctagc taccaccca ctaaaaaag ctcatcctt gattgacttc atgataatgc 60
aaaaaagaag tccctactac aaagactacc caaatgccc tcaaatacaa ggctaaaacc 120
ctatactaca agaatggcca aaatacaatg cccaaaagaa ggaaagacct attctaatat 180
ttacatagat aagcgggctc atacttaacc caagctcgct acctaatttc gagcattctc 240
accattggca atttcaaat catgtctgag cttaaagaaa tacccttcgc att 293

<210> 33287
<211> 410
<212> DNA
<213> Glycine max

<400> 33287

tttcttaatg tctcatgatt gtcacgtctt gatgcaacaa tgggtagtca tggccatagc 60
agacattttg cctaacaaag tcaagcttgc cataactcga ctgtgctttt tcttcaatgc 120
catatgtagc aaagactttg atcttgctca gttagatgag ctggacaacg aggccactat 180

tatattgtgt cagttgaaga tgtagttttc acctgctttc ttcaacctca tgggtcactt 240
aattgttcat ctggtgaagag aaatcaaatg ttatgggcca attcatttgc attggatgta 300
cccggttgag cgatacatga agatcttaac aggggtatacc atgaatctac accattcata 360
agcatctatt gtggaaaggt acatcgcaaa agaagtcatt gaattatgtt 410

<210> 33288
<211> 406
<212> DNA
<213> Glycine max

<400> 33288

tagcctagat caaatcgggt tcccttcttt ggtatgtttt gtttgaaata tccctatggg 60
agagatgccg gaattcaaatt tatcaacaac ttcttcatta agtgtctacc tatttttgcta 120
tttctaaat taccctcact tatgccttta aacctaaatc tatttttgac acagaacgca 180
ctcattctcc gcttatattc atttggatca tatcagcagc cacactgtcc atttcattac 240
atttccaagc tcaaagtgtg gagagaagaa gaaaaggaag aatgggtgagt taaaaaccct 300
atatctagtt ttcattctcca ctgattttat actctttcat tatcatttta acacctaaag 360
tgactctgta ttggctgttt gaacttacat gttcccatte cctcat 406

<210> 33289
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33289

tatcttatta tatgacataa gangcattgg ttgtagtgaa aagtatttat ctattaaaat 60
aatcacgttt atgtgatttc aatgtataat gacgacaatg gagattaagt ttaagtccta 120
ttgcatctaa tgtgaccctg atcgattcta tattgtctac ctatctaag agtagttatt 180
attaaaaaga aatggctttt attgcactct tctatcctta tatgctgatt attttcagt 240
aataaattac tattgtccga cttttaaaat ctaagaatgg ttatcatcat ctttcttata 300
cacagtgcga taatgaatct catgatgtgc cttcatcatt gagtccataa ttacagctat 360

<210> 33290
<211> 487

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33290

aacaccacgt gtnggggaag tagancgcng caacnnacgn ganannatan aataactcaag 60
cttcaggctg ctcaattgct tagattgagc acattttggt tatggtctat gcgngggacc 120
acagaggagc atgaaccaca gagtctggcg acagggttag atttttgatt catggccagg 180
tggtttacca ggttcaccaa ggcattctact tgaccttcaa tagtcttact ctgagctgat 240
gaagatgaat tcttggttac ttcattgcact cctttaatga caatagcctc attattcgca 300
ctaaatcgct gagagtctga agccattctc tcaattcaat atttggttat tacctgcggc 360
atgtctccta aggcgtctac atagcgtgaa cgatcatact cctctacacg aactgagccc 420
atatataata tcgtaaaaag tgctcaatat ttgcggggcg cactgcgcta tttttaaact 480
tccagtt 487

<210> 33291
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33291

gccatgccaa gcccttatga tttntttctc acnnccatca tagattaatc tctttcttgg 60
aacagacnnt ctgatacttt cattctnntg ttcanaggct tatgaagaaa gttttcccag 120
aaaaaatttt agggaanaga atngnannaa atataaccac annngcttgt agttgaaagt 180
accactttcc tgtaataaag aaattcnnc atttgtgcat tcagaaaaat cttgcttcga 240
acttgaaga ttnntagttg ctggttgact tgggttgaaa tgggtcanng ctaccgatta 300
agcattgtca ttgttgccaa gaacctggct canaaatttt tgctcttggg atgcanaagg 360
gttngctatt gccaaataca agacaaggga tgaagaagaa gtgagctcaa tgtcttcaaa 420
tgtaaaactgt ctttgtctct caggctgcaa tctatcagat gaatat 466

<210> 33292
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 33292

aagatacaca ttataaatga ataaataaat aatatacatt actcgaaaca gaacatgtta 60
 acaagcatac acaatattcc caaattatta tcttgccctgt ttgaaatcct catcctgact 120
 tgtcactgga cgtgggtaat gaaagaaaaa tgtacaatac ttcaaacata ttaacaggca 180
 tacacgcaat attcacacat tatcttggca atttgaaatc ctcatcagc tttgtcattg 240
 gacaaacact acggatatag ccactgatat acgaaatcat attcaatgcc ttgaaacat 300
 ctgggttgtga aactgtaaca ggttntgata taagggtgta aatttgaatt ccagaagtag 360
 agattaaaca tatctcaatt gtttcttct 389

<210> 33293
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33293

agctngttta taatctcgga atgaagaatc tccatatgcc tgataaagag ggaggaaaac 60
 aagataattc atctaagacc tggattaata cgttgtgtct aaaagtaatc aagggattga 120
 atcagaaacc atataagcca accacaacct taaaaattgg cattgctcca atgtaaaacc 180
 tgactgcacg tgcataggcc tccgacttga tgcacttgcg tagtctatcg ggtaggtcat 240
 atatgaacta ctttcaacaa aggtaaaaag tatgtcaatc atattccact tccacaaaag 300
 actcagaagt cataccacta agtcaagtat ggaaacataa atatttcagt gatgcaaagc 360
 cggaataaag aaacatgcat gattgcttta ataattaata cctgaac 407

<210> 33294
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33294

agcttcatct ttgattagtt ttattaactn tgaaggcatg aataacaata atccctcttg 60
 ccaggaaaat caagatctga aattgagata tcacanattc cttgtgaaaa tgaacgtatc 120

<210> 33297
 <211> 512
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33297

cccaganaga ggggnnacct agngtctttg ctagtnntcc tagnannnac nnnnnnannn 60
 nnggnanaga nccncgagag tctatgnata ggagnngnan gntttgattt ataaatttga 120
 ttgggannga aaaggagcca gaagaggggc gcgctgtgaa aacagaacaa aaagccaaaa 180
 cgcgagacat aagaagagaa caatcacacg cccagcatta ttggtttaac aaacatgaaa 240
 gatgctcaga cccacatata tcaatacatg gataaaacca agattgcatg cgaaccaact 300
 taacctgtat cacaaccat tatattcatg atcagtgtta ctgcacaaat gttcaaagca 360
 atactaaggg ggccaatgtc ataactatat agaccaagat acgactatta atccgaatac 420
 tataattaat aaaatatcta aactgatggg tgtgggggag agaatacacga catctcgatg 480
 aaggtgaatc ttataatcac ttgtatactt gn 512

<210> 33298
 <211> 355
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33298

agcttgtttg tggagcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60
 ggtgattttc caccatggag atgcagcgga atacaaagga gaagaggtaa gaggcggcgc 120
 catccattaa agaataagca tggaagaagg agcttcacca ccaagatgaa ccttggataa 180
 gaagcttga gaggatgctt caatggagga aaagaaagag agagataaag agagaggggg 240
 gagcacgaaa ttgaaggaag aaaaaggag agaagttaa ctctgagttg tgtctcacia 300
 gactctcatt catcanagtt acaaaaagtg ttacacatgc ttctatttat acact 355

<210> 33299
 <211> 364
 <212> DNA

taagattcat tcaatttgc tcaagtttcct tcgtctagtg gactgacagc ggtgcaacac 240
 ttattc 246

<210> 33302
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33302

ngcctgtaca aatgcccga tgacnncant ttagcaagna cgggagagcg ataagtcgag 60
 ctgacgcatg cagccacacc ttgtttnta atattaaccc ctaacgaggg agggcatcaa 120
 atcacacagc cagaccaccg gatctgacat ggagtacaca aaggccccga gtaatgaacc 180
 gaccacagag cacacagcaa tactctgcca gaacctacc agcgagagcg ctggcagaga 240
 gtggacattc ctagcaatac atgcaccaga attggaacag cgccatagtg ctagacatcc 300
 actgactata caaagccgcc cagtgacac ttgaaattcg catacagggtg caagcaaac 360
 cccaggcacg aaacaccac gttgatcaga atacaacacc gcaagagggtg cgatgctgcg 420
 tgtgagagac ccaccagag cgggaggagc agg 453

<210> 33303
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 33303

agcttttttt tagtcatgtt tgaaaaccat gcaggggtta tgtttgaatt tagcttcagc 60
 taagacctca ttagctatca ttacaccatg gaggatatgt ctgcctttga ggaaagcaat 120
 ttgcctttca tcaattaagc gaggcagcac aagagccagc ctattagcca ggactttgga 180
 cattattttg tagacacacc ctatgagaga gatgggtcta taatcattaa gagattgggg 240
 gctattgggt ctggggatga gggctatgaa cgatgcatta ctccctttgg ggaatctgcc 300
 attaatgaag aattcatcaa agaatatgat aaaagc 336

<210> 33304
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 33304

tcataaagcc cccactgctc atcttttttt tgtcttgtag tacagataac aaggtctgct 60
 gcatccacag aaagttcttc tgctcaatc cttctcgta tcttataagt tgaattgata 120
 tcctctattg attggcgctc ctgcttgaca aagtgttcaa gcttgtttct tccaagtga 180
 tgacctgtaa gcaccattgg tacatttaaa gcacctggaa gaataacagc agtata 236

<210> 33305
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 33305

tttgcaatct tatgttgcaa atatttacia tagacctct caacctcagc agcaaatca 60
 accatagcag aacaattatg acctctccag caacagatat aacctggat ggaggaatca 120
 ccctaacctc agatgggtcca gccctcagca agagaccaga gctccattc agagcttaac 180
 caatcagatg ggacaattgg ctaccaatt gaatcaaaa cagtcccaa attctgacaa 240
 gctgccttct caagctgtcc aaaatccaa aaatgtcagt gccatttcat tgaggctggg 300
 aaagcaatgt caaggacctc aacctgtagc accttctca tctacaaatg aacctgcaa 360
 acttcaactct attccagaag aaggtgatga caaaaattta cctaacaatt tc 412

<210> 33306
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 33306

gcttatcctt atggcaactc ccgccttatg acgactatct ctctggctctg acgatgagga 60
 aggagatacc catctctgtc cctgtctcca cctcatagat ctgtcccccac atgaactacc 120
 ccaaccgaac atagtccgcc atatcccgac ctcacccaca cccgtaaaag aatctgttcc 180
 cttcgcgga gataagggaa agattgaggg gctcgaagag aggttaagag cagtcgaggg 240
 cttgggaat taccattct cgtatttagc ggatttatgt ctctgcccc atactgtcat 300
 tcctccaag ttcaaagtac cagacatt 328

<210> 33307
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33307

ttctntattc tatcggttaa gccgttatct cgcctaataa atgataaaat gaatttcaat 60
cgatcatttg cggtgtaatc tcgtttaatc actgttaaaa caaatctaa ccgatcattt 120
acattgtaac ctcggttaaa ccaaaaaaag caaaataata ataaaataat caaatatct 180
ttgaataaaa taatcaaaaa aaatcaatct gacgtttttc tttggagggtt tccttgaatg 240
aattgactaa taaccaaaagt gaaactaaga ctaaaatcaa ctacaaaatc aagctttgtc 300
cataaaaaatc acttataacc cgttttaagg tccaacgcct tatacgggtcc tctttgcttt 360
tatcggttaa catggacagt tcataagcat aaaatcagca tgtaac 406

<210> 33308
<211> 365
<212> DNA
<213> Glycine max

<400> 33308

tttcttcaat ctgagagctc gggatatgtg gatcattgtg aaacccctct ccatacttca 60
caagggatgc atgtgcttgg gaaggtagaa aatggaagtt ttgcattgga ggaaaggata 120
gatttggtgg tctaccagcg ataagaaact gcttgtgtgc ttcttactg gaagtttgct 180
ctccattacg gtccgtatta gaagattcag tcttagatat ttgaactggg ggatgaatag 240
tgtatccagg ataactgca gtttgaaaca agccttgtca atagacactt tatagactaa 300
ttcagaatat cattatttaa caaacttgat atgagagtag atacaaaatt ggtacttgcc 360
aatc 365

<210> 33309
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33309

tagaaaacta agcttggcag atctatgccaa gaatgcaagg ggacatatat ttctcttact 60

ttgacatgna tnntaagcta gatgacggcg attgtgaaac accaaatatt attacatatg 120
 gggcctttggt ggatgggttta tgcaaagcga acaggggtga agaaacccat gaattattgg 180
 ataccatgtc agttaatggt tgtgagccca accaaatagt gtatgatgct cttatagatg 240
 ggtnttgcaa gactggaaag cttgataatg cacaagaggt gtttgtgaag atgtcatagc 300
 gtggatactg tcccaatntg tataacctaca gctctctaataaatagtcta tataaagaac 360
 aaaattggat cttgtttgaa agtggttgcca agatgctcga gattcttgca ctccaatgtg 420
 gtattacaca acatgatt 438

<210> 33310
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33310

agcctttggg tgttcctctt ttcttttct cangccctat cattctcaca tactggatnt 60
 taagtcttat tagtgtcttt ttctaggata ctctacaaac cataaaggct ataagtgcct 120
 gtctcctact ggcaaaatat tcatctccaa ggatgtggtg ttcaatgaaa ccaggtttcc 180
 atatactgat ctgtnntcta aatccatata ctctctacc ccaacatcct tgcctcctt 240
 tttagcanac attccccttg ttggctctcc acttgctact cccttaccaa aactgtacc 300
 caactcccct tcccctctc ctcanacttc ccaaactcat gttcttgatt ctggttctga 360
 cattcagtca gttcccactt ctctattcc tcnaaattcc aaactcctgt tctgattctg 420
 gtcttacact cagtcagttc cacttact 448

<210> 33311
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 33311

acgcagacaa gtctcttaga tgcctatgtg ccataatct atcttttgtc ttctacaaca 60
 atgccttgag tagttcaagt ttcaactttac cgccagcaag tgaattttta tttcgatcaa 120
 tgtgttcata ctaagcagcc ttaactgtac aattacctac aactattttg gacatgggta 180

tgaccatata taaatattga aaccaaagat tccttggagt aatgtgatgc caagaagaaa 240
 tccaagattc ctataagtat aacccatggg ttgaaaagaa gcaagtgatg cttactatta 300
 acttcgtctt ccagttcatg aggtccaagg ccattcacat tccctgctca taaggcgcgcat 360
 cgattatcat catatcata 379

<210> 33312
 <211> 276
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33312

tgccctcanag aggtccagga aggataaagc ggccgaagga accagttccg ctcccagta 60
 tgacagccac cgcttttagga gcgctgaaca ccagcagcgc ttcgaggcca tcaaggggtg 120
 gtcattttctc cgggagcgcac gcgtccagct caaggacgat gagtatgccg atttccagga 180
 ggagatagtt cgccggcggt gggcatcact ggttaccccc atggccaagt tcgaccata 240
 catagtcctc gtnnttttatg ccaatgcttt gcctat 276

<210> 33313
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33313

agctntgtgg actagtata ttaatatatn ttttagaaga gagacaaagc taggaaggaa 60
 acaaaccaag agagtgaaca taggtgcttg aaggaaaagt tgatggtttg aactttgaac 120
 taactaataa ctaaatagtg gatatgatat gtgataatga gagagacagt gagaaaaatg 180
 aaccatatcc atatctctga tgctgtgttt gatggagcaa aggacatgac tgacatatgc 240
 tggtcatggc ctcacgggtc aggctagcat gcattacatc atgcacgtgc gtgttttagc 300
 attctaccat taacggccaa cggacgttcg caacgacgtc gttcttgcaa gagaaggat 360
 ttaactactt attgtacgta ggtaaaaata tctcaactct taatgccaga gtaaacccta 420
 ttagtc 426

<210> 33314

<211> 233
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33314

ctaataagta ggaatgtaag cttcatggag aatgagaagt ggagatggaa cgatgcanaa 60
 aatcagtaaa tggattatattt gaatcaagaa gagttagttg atcatcctcc tggtcgcgac 120
 actagattac ttgccgacat atattagagg tgcagtgttg ttgtgcttga accaacagga 180
 tatcatgaag cagaaaaaga tcctaaatgg agggttacta tgcagaaaga gct 233

<210> 33315
 <211> 360
 <212> DNA
 <213> Glycine max
 <400> 33315

agcttgccctc tatatgtcca ggattacaag gcagccgaag gaactagttc cgctccggag 60
 tatgacactc accgctttat gagcgtgtga caccagcagc gcttcgaggc catcaaggga 120
 tggtcgtttc tccgggagcg acgcgttcag ctcatggacg acgagtatac tgatcttcag 180
 gatgaaatat ggcgccggcg gtgggcatca ctgggttactc ccatggccaa gttttgatcc 240
 agatatagtc cttgagtttt atgccaatgc ttggccaaca gaggagggcg tgcgtgacat 300
 gagatcctgg gtaatgtgtt agtggatccc gtttgatgcc gacgctatcg gccatctcct 360

<210> 33316
 <211> 459
 <212> DNA
 <213> Glycine max
 <400> 33316

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 cattggacaa ctggttctgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaaat gtggacatgc tgaatgacat gctgtttctc aaatgctaaa 300
 ggtaaaaaaa aaaaaattct gaaaagaaaa agaatagcaa taatgttgag tgaataatat 360

cttaaagga caagattgat gaaactcttg ttctactctt catgtttaat tttatcttac 420
ctcttttaat ttctagtttt ttcttaaag actattccc 459

<210> 33317
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33317

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tgcactctgc ttgatgaat gcagaaactg tggcaaatga aaacggcgac aatgatggag 120
aaacccacgc tgtgactgac actcctatac agtcaagatg cagccaacc aaacaacgtc 180
cttacagacc caataacaac cctcttctt accctgtgag tggatgtata cagaccgtg 240
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gtcaaaaaca caaagccttg agcagagga atggaaaaca acccatgcgt tcaatgagaa 360
agatcaagta attcagggga tatgcatcaa taccactaca aagctcaact acgctgggtga 420
tatatgataa ctgtaacca ccn 443

<210> 33318
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33318

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ttctatccaa accattaatt tcgagatcct ttctgataac cctcttata ttacttttgg 240
gtctatctct gcctogaata gtctgacttc tatccatctg ggctactctc ctactacag 300
attctaccgg tcttctctct acatgcccta accacctaag tctaatttcc accatcttct 360
ctacaatagg cgctact 377

<210> 33319
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 33319

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 ggcgttttcgg ttacttcgat tgcgacagtt tctgcagttc gagacatttc tttgggtttt 180
 ccgcattttg atggcgatac accactcttg gagtggatct tcaaagaaga gaagttcttc 240
 aattatcata tcaactccaga tctcgatcga agtgataatt gctctattca ttttcaaaag 300
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 acacgtgctc tggaaacaca t 381

<210> 33320
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 33320

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 gtcattgttc cgggagcgac gcgtccatct cattgacgat gagtatgcct gattccaaga 180
 ggagatagtt cgccggcggt gggcattact ggttaccacc atggccaagt tcgaccata 240
 cataatcctc g 251

<210> 33321
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33321

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 ctttgtgtct tgacacaatc cacacacaca ccagcatttt ccaacatcca aaaacaaagt 120
 cctaggataa gttaagaact ccaatctctc gcactatctt gttttcacat tattattatt 180

actacttggt tgtgtgtgtc tgttctacat tgttgcttgc taccctaccc atgatcttgg 240
aactgtgacg agatgccaca ttgattaaca acaacaacaa taaccacgtt agatctcaag 300
ttggagtctt tgtctggaga caccattat ggggggtgtg agtctgaagg aatcatggtg 360
tttct 365

<210> 33322
<211> 533
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33322

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agatggagtg aggcgggtcga atgaaccaat tacgctcctt agtatgacag ccaacgcttt 120
aagagcgtg aacaccagca gcacttccac gccatcaagg tgtgggtcatt tctccaggat 180
ctacgcgtac agctcaatga cgagtagtat gccgatttac aataggagat aggacggcgg 240
ctgcgggcat cacttggttac ccgcatggtc atgtacgacc caacatatct cttgagattt 300
attcccatgc ttggtctatg gaggagggcg tgcgagacat gatatactgc gtgaggggtc 360
catggaatcg cgtctatgaa gatgctatct caccgataat aggacattct ttattgctgg 420
aacacggccg cgagtgctaa tcttgctcat aagaagaaca ccgtcctgat tgtctttact 480
aagaagccat cctccacttg tagtgcatac ctgagacaga ttcttccacc acn 533

<210> 33323
<211> 402
<212> DNA
<213> Glycine max
<400> 33323

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aggctgattc aaacacttgg ttctctccaa tttcagcata tgttgctagg cttattcttc 120
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tcactttctg tgcagtagct atattgtgca accatgatag gtaggcctaa attagatagc 240
gttagaactt cactgctat gtgtacttag ctcttcttgg ctaatgcaca tttttataca 300
ttaagatcac ataattacat ccatacatgt atatagagaa gatgatctag ttactgtcta 360

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402

<210> 33324
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33324

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aaaagttgca ttcttttgac aggacaaagt ctacccaaaa gattattaag atactaaaag 120
gaagtacgtg aatcggtgta caacatgttt cattataaga gagtatacat tactcacagt 180
gtgtctttgt acttctgata gttaactgat agactaacta ctgtagttag tagttagtct 240
gttatcacgt ggtagtatag ttagtgcttg ccagctatgt aatagttgtc aactaactta 300
ggttacatta gttggtagtt aatccaaata tataaacaat cttgaattct gattacagt 360
gggttgaata atatcagata tctcaatctc aatgtcttct cttctctcaa aatctcttca 420
actctattat tcat 434

<210> 33325
<211> 196
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33325

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aatatatcga gacgctcgat attgaacaat ggaagctctt gagcaaatacc aatggtcata 120
acttttaact cggaggtacg attcatgcgc ataatatatc gagacgttcg aaattgacaa 180
tggaactctt gaacaa 196

<210> 33326
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33326

DECLARATION OF THE PRESIDENT

<400> 33327

<400> 33328

13877

[illegible][illegible]

<400> 33330

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cggatggtcg tttctccggg agcgacgcgt ccagctcacg gacgacgagt atactgatct    120
acaggaggaa atagggcgcc ggcagagggc accact                                156

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<223>      unsure at all n.locations
<400>      33331
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ctgtctaaat	ttgtgcagca	gataattgtg	cttgtgcaga	aaatgttgtg	tattctttat	180
tatggacatt	ttctaggcga	tcccaacggt	caaaatgtat	acctatgtac	tagggacctc	240
cagtaaaagt	ttcgggtcga	tccaacggtt	aacgaagcgg	aacaaagaaa	atgttactgt	300
gtatttgagt	agagaaaagtc	gtggtattgg	aatgtgtttt	ggcagagctc	tttgccctctg	360
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<210> 33332
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33332

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 atttcctttt atgcataaca aatttcctttc attcaattct cttcatcttt ctaaaagtgt 120
 ttgttcaata ctttctcttt caagaaaagt tccttgacca aaaacttggt ctattctttt 180
 tctttattcc ttctctcttg tcaaaagatt gaaaggacta accgcctgag aattcttttg 240
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 tgtttcttac aaaagatttc aaaggaataa ccatctgaga atatcttttt ctttttcctt 360
 taaacaaaag atttcaaagg actaacgct tgagatatct nttgtttccc catacaaaga 420
 ttcaaggac taaccgcta agaattcttt 450

<210> 33333
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33333

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 cactactttc aagaaaacaa gagatcatta atagtccgat gccttaatgt tntctctcct 180
 ttcaaaagga tcaaaagatc gtttaaaggg tccaacgccc taaaacgacc ctnttttgta 240
 ttggtcacta tatcttacia aaaaggataa aaacaactta accaacgttt agttctcaaa 300
 gaactacgta ggtctgtgat cgaggtcgta cccgaatcan ataaacatta aaatgtagta 360
 actatggaag tgatcctagg tcgtttccca acgagaaatg gataacaaa tgttcataac 420
 agatagtagg aagtagtaac aaaatggggg gggggggg 457

<210> 33334
 <211> 270

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33334

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atgacagtca ccgcttttagg agcgctgtac accagcagcg ctctcaggcc atcaagggat 120
ggtcgtttct ccgggagcga cgcgctccagc tcagggacga cgagtatact gatttccagg 180
aggaaatagg ggcgcggcgg tgggcaccac tggttactcc catggccaag tttgatccat 240
aaatagtcct tgagttttat gccaatgctt 270

<210> 33335
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33335

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taaatacatag actttatgta gcgaaagaga taaagacaag aaagggaagt aatattaaga 120
agaataagat tattaacaga gcagaagaga gtcaccatca acgcatacat gagaacagat 180
tctagcttgg atactgagga gagatactac agataataga gaagagactg tacaaccaa 240
tatgatgagc taaatacaag agaaagggtga ctctcctcaa gcaggattta tcttactaat 300
agttgngtca attgtcaata ccacgagtag aagccctaata aacatcttaa tgcttatgaa 360
atggttccat tgtggattgg atatacaaca agaagttgaa caaaacacaa ctctgatgga 420
tagcatgaaa 430

<210> 33336
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33336

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attatctctt agttntaaga gaaatactta aaacattttt tttcaattat tcttaaacgc 120

atcttataaa tctatggagt tgtctttacg cagatcctgg atatcctgct aactatgaca 180
atcctgagat gggatatgga ggaactacat gtcctcctga ttcttatagc atgcatcagg 240
tatgtgacac tctcttataa gttttatatg tat 273

<210> 33337
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33337

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aggaaaacat gaaggaaaaa tagataattc tttagaaatt tccattcaat catgtgatga 120
ctttgaaagt ctaaaattaa agacaacaaa gctttgtctt gaaaatgagg atatttgtaa 180
ataaagatat agtatattgg aagaccttca gaagttgaaa aatcaactgg aaggcttaca 240
aaatgagtat atcacactca ataaacttca tgattgccta natgaggaaa gatgtnatct 300
attgaaagca tgttccaag tccataagaa ttatgaaaac ttggaggcaa gtaaacatat 360
gatgtagctc ccagtagagc ttgtaggcct cggatcttnt catcaatgga gtatt 415

<210> 33338
<211> 459
<212> DNA
<213> Glycine max

<400> 33338

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cggtaaccca accggccatg aataataatc tgccttggtc gcagactctg tgggttatgc 120
ttcttttgcg acaacacaca aaacttttgc cttctatgca acaattttga acaattgaac 180
agcctgagct tatgctgcaa acatcaacaa cagaacctct caacctcagc agcaaaatca 240
gccacaacaa aataattatg acctattcaa gcacaggtac aatcccgggt ggaggaatca 300
cccaacgtag atggcgatct tcaaacgcac acacacaact tatttcaa atgtgtaccta 360
agcgaccata cttctcacca tcgacaacag ccaaaacaca acagtgagct ctcacaactt 420
cctgagaact ggagcaatga atgcaacatg cgtttataa 459

UNITED STATES OF AMERICA

agcttcttca	gtatcatgaa	tttcatttta	cattctaata	tttctcatca	atatcaataa	60
aaataccggt	gtgcctaagg	aacaataata	tggtaaatct	aaatttggtta	tagaggaaaa	120
ttagacaagt	aaagaatagt	caaacttgaa	ttaaaatcta	agagtggtaa	atgagttgtc	180
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<223>      unsure at all n locations
<400>      33340
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tactaactca	gcaaacattt	ctttttcttt	ttgtttttac	cttcacaaaa	ttgggttttg	180
tgatttggtt	ttgatgtcaa	ttcttataac	tctcacttgc	aggatgagaa	acctgaagat	240
ccagtgaccg	gccaatagga	atcaacacaa	atattaatgt	gtgaatttca	catccagcaa	300
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<400> 33341

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 atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt tgaatttgct 180
 gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240
 gagtaaaaag ttatcgctcg ttgaatttg ttagagcttc aacattcagt ttagagcgtc 300
 tcgatatatt acgggactca atcagacatc cgagtaataa gttattgtcg ttagaaatcc 360
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<210> 33342
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33342

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 attagccac ctcggcaaaa aaacatgatt caccgatatt gacagaaaaa aatgctagcc 180
 ttagtcggcc aggaaagatg accgatcgag gtctaaaaaa gaagcatgac cggattacgc 240
 cgatcgaaca tttcctatta gatatgatgt gaacctgagt aggagcggat canttgatac 300
 aggttacgga ggttntggat gaacgccact tcagtgaagg aagataagtc atggtag 357

<210> 33343
 <211> 594
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33343

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 aaggtaaatt gagacctacg tagacacgct agacaatccc agaccgggg atactctata 120
 gagaccgct gcatgcancg cangccatct acantacaga cataccagca aaaggacaac 180
 ggacagacg gagcatatat caacaccaa caaaccaca gcaggataaa cgcccaaccc 240
 caccacaagt atgggcacaa cgaaagagac aagcatgcgg caaaaatcac cctacgccat 300
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accagccgaa caaatgtcgg gacaaacact cacgaactaa ggaagacaca acccaaccac 420
 ccacatgaac tctaaatact gaccaagcag agaatacaaca tgaactcgcc acataaagaa 480
 aattcgact gagcgccagc gaacagagac caagcctgct caataagaat atgaaccaa 540
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<210> 33344
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33344

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 aacgtcaaga ggggcttggc tatcacanat aagcttagtg acttaagtgt ctccaaactg 240
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 gcatttagct tcgatgctgg gtctagcaac tatattttgc ttcttacttc tgcattgagaa 360
 caaatttccc ttcaagagtc agaggtagac ctcttatctg atggtgatcc taccacatca 420
 gcatcagagt 430

<210> 33345
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 33345

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 atgctatggc tatcattacc attggccgct tcaccagttg gatatacaat atgtgttatt 180
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<210> 33346
 <211> 423

[illegible]

<210>	33347
<211>	413
<212>	DNA
<213>	Glycine max

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acagtaaaca	gtgaagagtg	gttatggcat	tacagatntg	gccatttana	ttttagagat	180
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ccaatcaggg	caaaagagaa	acttganggt	gattactctg	atggggtgtgg	ccctatgcan	360
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<210>	33348
<211>	405
<212>	DNA
<213>	Glycine max

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aagtaacagt aactacttag attctattct ttatgaacca aagtcactgt taccctagt 180
ctgtaaatat cagaaggatg caccacaact gcaactgaagt cacttggaag acattcgagt 240
tcattgggct aattactttc tagagaaaga tagaaataaa acttaagctc tatttggcac 300
tttaciaaatg gatatacccc agaatagaca ccatgagttg ttcaatttat cgggagaatg 360
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<210> 33349
<211> 590
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33349

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atatanacaa aaaaagagag nnaaaatttg aaatttgaga gccctgcnta tancngacac 120
tatataagac tcaagctcaa gaagcactgt acggactcaa acaagcgcac agagcttggga 180
ttttaatgat tggcacatct ctgagtcaca cgggagtcag ataatgctca gatgaacatc 240
gcatataccc gaaggacaca acgtgtgaac ctaaactgct tgtatggata tgaccaaca 300
acaacaggcg ttcgactcaa aggatatcga atgtataaat gcacagaaga cgctagaata 360
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aagggaatga tgcctcgacc actaatgcaa gaaactgata tattgagaag atgcatatcg 480
acaaaagcac tctcaaatac cccacacag ggaactaaaa ttggaacact gcaaacaaga 540
agaccgatgc cccaaggaga ccaacaatgg accttgaccc ctaggaatgc 590

<210> 33350
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33350

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attgtgagtt tccaccatgg agatgcagcg gaagacaaac gataagatgt gagatgagggc 120

gccatccact atggaataag ccatggcaga tggagcttca ccaccaagat gagccttgga 180
 taagaagctt ggagtggatg cttcaatgga ggaaaagaaa gacggagaga aagagagagg 240
 ggggagcaca aaattgaaag aggataaagg gagagaagtt gaaattgagt tgtgctcaca 300
 agactctcat tcattaaagg tacatcaagt gttacacatg cttctattat a 351

<210> 33351
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 33351

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 aaaacattat aatcaattac actacatatg ttgaactcat tgctctcaag aaacttacag 120
 atgaatcaat tcgtttaaca ccttagaatc atattaataa tgcataaaaag aagacttaac 180
 ctagaacaat catcatgtta gtctataaca atcaatacaa ataccacatc tattaaactt 240
 gtttgacatt gtaaaattat taaacaaaaa ctaagacctt aagacatatc ttcatagttt 300
 tatgctttgg tccaacaata attcttcatt cgaaaatatg ttactactgt ttatattata 360
 aatgttaagc caaaatcatt aataagacca tctaaactca ttatcctttt tcccataact 420
 ataatatattg tgccccaac ctacttctat taaatggtag acttataata 470

<210> 33352
 <211> 227
 <212> DNA
 <213> Glycine max

<400> 33352

ctatcgagcg tctagctata ttacgagact caatcttaca tcatagatca acgttatgg 60
 cgtttgaata tgctcagagc ttcaacattc aatatcgagc atctcgacat gtatacggga 120
 ctcaatcaga catccgacat aagagttatt gtcgtttgaa ttagctcaga agttcaacat 180
 tcaatttcaa gcagctcgat atgttacggg actcactcat acattcg 227

<210> 33353
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 33353

agcttctttt ggtccttgaa caagcaatca actcctcttt cagaaccatg ctatgtgctc 60

gcgactgggc cctttcttcc cttcgcaact tgaggtcatt attgctaccc catagagctc 120

cgcgaaatth gttccggaca tactcttcct tgtgagccct cttgggtctct tgttcaaggg 180

ctcttgcggt aattgcattc tcttcccgta acccggcaca ctccttccga acgtgtgtag 240

caaccaactt gaacttctcc ttggcgaagt ttgcctttcc taactcgctt ttgagagctt 300

ggacttcttc gtctcttcc ggtgcttcaa aattctcttc gctgacgact cttaacttgg 360

cgagccaatc taaacctcgt atgcgaactt tcagccattc gt 402

<210> 33354

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33354

ctgaggggtgc gtagcccacc atctnttcat agtagagtat cgataatgtg tctaccatca 60

cgattatcgt ctccctttcc atcattgggg gtaccacttg ggccgccaga tccctccacc 120

ttttaggcgt gttctttgaa agatccgtcc cctttntgc aaatgttcta tagttgcatc 180

ctatccggaa ccatatcaaa attgtactga tactgcctaa caaaggcaac cattatgtcc 240

ttccaagaat ggactcggga agattccaag ttagtgtacc aggtaacagc taccacagta 300

agactttctt ggaaggaatg tattagcaat tctcatctt ttgcgtattc ccccatcttc 360

tgacaatata tctttagatg gttcttgga caagtagttc ccttgtactt gtcaagggtc 420

agcaccttga acttgggagg ggtgatgata tt 452

<210> 33355

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33355

agctntcagc catttcaaac gatcataact ttntactcgg atatctgatt gagtcccgtt 60

atataacgag acgctcgaaa ttgaatattg aagctctgaa ctagttcaaa cgacaataac 120

ttntactcg gatgtctgat tgagtcccg aatatatcaa gacgctcgaa attgaatggt 180
gaccctctga gcatattcaa acgacaataa cttttttctc ggatgtttga ttgtgtcccg 240
taatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
actttttact cggatgtctg a 321

<210> 33356
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33356

actcagctta acattcaatt tcgagcgtct cgatatatta cgagactcaa tcttacatct 60
gagaanaacg ttattgtcgt ttgaatttgc tcagagcttc aacattcaat ttcgagcatc 120
tcgatatggt acgggactca atcagacatc cgagaaaaaa gttattgtcg tttgaattag 180
ctcagaagtt caacattcaa tttcgagcgt ctcgatatgt tacgggactc aatcatacat 240
tcgagaaaaa agttattgtc gtttgaattt gctcagaggt tcaacattca atttcgagcg 300
tctcgatatg ttacggggct taatcagaca tccgagtaaa aagttattgt cgtttgaatt 360
ggctcaaaga ttcaacattc aatatcgagc 390

<210> 33357
<211> 151
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33357

agcctatggt gtgttcgatg cgggtttatc tggggcggn aacgatcttg accaacacct 60
tcttcacgtg catcgctatc actatcatta tgatctgaat actgaatgta cgggtctaaca 120
agggatgggc tctaaaacat ggagtcacat g 151

<210> 33358
<211> 462
<212> DNA
<213> Glycine max

<400> 33358

acctacactt tagtaaaatc atccattaaa ttgcgaccca ctctctttct ttctatacgt 60
 ggggtgcatag caggatccca gaggactatc gtatgatctt atatacacct acttaactca 120
 tggatacaat aaatattccc ttacaacca tgtaatgatt ggtatagtag ggattttacat 180
 ctattaaggg aatgagccta tatttaacta tatgaccaa catctcatgt gtctactatg 240
 aattccagtc caccaaaata aaatgatctc gcggcagcgt tttaatcgct tactgactgc 300
 acggaagccc agacctgtgt tcacgccatt gagttccaac agtatatcat acttggtttc 360
 tttcaagaat gttatgtag ccatcttgta aggacactca ttagtttaga ctatagtggg 420
 gttcgacatc tattttaccc ataagtatct cactccacct cc 462

<210> 33359
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33359

agcttganat gatgtaatgt ggaatggtga gacttccttc ttttattggt gaccacagag 60
 tgggtacctgg agatatgtcg cggnggtcaa gagaccttgt ggacatcatg tgggctgcta 120
 ttgccccaaa ccaagcttga ccaatcccg cccaaccgg gcatagtcag tcagtgagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataatagg aacaaagacc 240
 acaaagcaag gaggcttgtg tgggtggctgg ctggctgtga atcttgtgtg atatatgggt 300
 tatggcctct ggtaatcgat tactaagggt gggtaatcga ttac 344

<210> 33360
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33360

cttgaggaag cctcttaatg aagctacatg gagcctggct cgtattaacg attcccaacc 60
 cttcgtaacc attggatctt ttcgaaattt ggtctgccgt ttcaaaagac aagtttccac 120
 gatctgacca atgggatctt tgagaagatg tctggagtgt gcgcgacatt tcctgttccg 180
 agagcattgc tcactttggt tgtttgagcc ttgtaatcca agtagcttat gaaaaatgcc 240

attccttctc ctttctttct tccaaaacca tttccaatgg ttcaagctct ttcttcatca 300
 cccacagcca ccattagcca ccacaaaccg ccgttggtct ccgttgaaac cccacaccg 360
 agaggtacac ctttaccga agcggaatct tccaacttgg cttgtagttt cggtagccaa 420
 cgaaaaccta atccgacctt ttcattttct tcaaggtacc acggtctatg tgatcn 476

<210> 33361
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33361

agcttggttaa attgtggttn tcttgatgaa gattntatgt gcttcagttg ttntttttta 60
 tgtgggttttg aagtttaact aaagtagttg tgtgctttgt gaaatgggtt cagggctctt 120
 tggggctaataaatgtttgtg gagagagaag atgatcgttg tgctgagcat gattattgat 180
 gggtagcaga agtagaacgg taaacgttaa cactaatgac actaacaagg ttctgaacgg 240
 gatgccaagc tacgctctc cattgccttc ttctaattcc atgtgaatct ttctgaggac 300
 ccttatgtcg ttaatgttga tttcgttcta tattgagcta tgataggttc ctggatcgta 360
 gtttgcttcg tttatgattc tcatgtggga gattatttat atggtgcaat atttgattc 420
 tagttaactt tatgaact 438

<210> 33362
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 33362

tatctctatg tgctttgttg gatcatgttg aaaaggattg agtgcaatgc tgatggcgga 60
 cttattaaca caaaccagtc caataagagc attatatttt attttgaggt catcaagttt 120
 gatcttcatg cataacaact cactaaactc ctgagccata tctctaaatt ctgctactgc 180
 acttgatctt g 191

<210> 33363
 <211> 418
 <212> DNA

<213> Glycine max

<400> 33363

agcttctgtt ttctttttcg agcatcttga tatatgacgg gacacaatcg gacatccgag 60
caaaaagtta ttgtcatttg aattttgtga gagcttctgt attcattttt tagcatcaag 120
aattattaaa tgactcaatc agacatccga gtaaatagtt attgtcggtt gaatttgctg 180
acagcttctg tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg 240
agtcataagt tatcgctggt tgaatctgct cagagctttt attttcaatt tcgagcgtct 300
cgatatatta tgggactgaa tcggacatcc gagtaaaaag ttatgggtctt ttgaatttgc 360
ttagagtcac tgggtctcaat ttgggtgcgtc tcattatact atacgactca atcggact 418

<210> 33364

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33364

ataagcaaat tcaaatagaca ataactnttg actcggtatgt ccgattgagt catttaataa 60
ttcttgacgc tagaaattga atacagaagc tctcaccaaa tttaaattgac aataactntt 120
tactcagaag tctgattgtg tcccgtataa tatctagatg ctcaaaattg aaaacagaag 180
ctctgagcaa attcaaacga caatagcttt tgactcggat atccgattga gtcatttaat 240
aattcgagac gctcaaaatt gaatacagaa gctctaagca aattcaaattg acaataactn 300
ttgactcgaa tgtccgattg agtcattnta taattcgaga cgctcaaaat ngaatgcacg 360
agctctcacc anatntaaat gacaataact ttttactcag aagtctaatt 410

<210> 33365

<211> 509

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33365

agagggaaat ttgattcgtg gcaactgcgac acctgaactc tcagcactac gctcncttgg 60
agcgtcttgc ttacctcgac acgctatact tcactctcta caaaaacggt gcagtcgccc 120

<400> 33370

cgtaggatta tgggtgtacc atcacatgtg gtactagggtg gcggttggca atgtgcacac 60
aagtttttcc cttccacatg cgcgcataac ccaaccttcc ctggttgcct accttcaactg 120
gactcaccgt cttccacggt acccatattc ctggttctct aaccaccggg tccattaat 180
tcttccaagc ttacacaaca ttccagcaaa acaacattca cacagcacia gctatcacag 240
cccaacaaaa acagagccaa agcagaaaac tctgcaaaaa caccaaccaa aaatcacaag 300
cttttccact caaaaaaccc aggtaccaat tcttcgatcc aattcgataa ccgttggatc 360
gactccaaaaa tttacttgaa gtctacagtg cataagccta cattttgacc gtggggatct 420
actatcatac attcagaact cattctacat tactcttgtc acacg 465

<210> 33371

<211> 355

<212> DNA

<213> Glycine max

<400> 33371

agcatttgat ttgtccaact tatatccacc cctaattgtta ttgatacaaa ataaagaatt 60
tttatcaaaa aaaaaacata ttcattacat caaaatgtaa aaggcattta ttttcttttt 120
catccattaa aacctttcta attttgaat tttaacaaaa aaagaatatt aaagagaaaa 180
acctatgatg tattttttta tgagactatt atgtattctt atatctgtgt tctagtaata 240
caaaattaat tgtggagtga catggacca aaagttatat actaatataa ttcgattttt 300
ttctaataa ctttttagaga taatctcata atattgtcat ttcaaaaatg tgatc 355

<210> 33372

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33372

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ttgatacttt aaagacaacc ttagccaaac ataaattaag aatttataaa ctctgaccat 120
cataattggt ctaagctcaa ttgatattct tgatatgcta tgtatgctcc ttgaatcaaa 180

atttatataa tttgtcttca tcaaaatggg gcagattggtt agaattggac aacccatcat 240
 tgaacgatcc attcattcct ttttaagtttg atgagtaaca aagatataaa tntatgacca 300
 ctaataaactt acacttaaaa gtgcaagaca tgtcatatgg aagtattatg gtaataaactt 360
 ctatctcttc agctcctttc ttgattgtcg ccaactcttca atcctgtgcc tattttttaa 420
 agaataatca catat 435

<210> 33373
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 33373

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 gtcccacttg acgagatcat gatcagagaa tttgctgagc ggcacttcac ccataacttc 120
 gcttctcata atgctggcac aattcttata ctctacaagt atgagaagat tcatctttct 180
 gctttggaga catatgcaca ttcgattcac tgtgctattg atagcaaac cactgccaaa 240
 cactgtcagg aatcattcat ctacagtctt cactccattg tggcaagaag agctcattcg 300
 gataatctaa ctatgtatca atgttaatat gaactgcacc tcgctcctca ttggagagct 360
 caacttcata ctattctcca ccga 384

<210> 33374
 <211> 62
 <212> DNA
 <213> Glycine max

<400> 33374

caagttgtga gctgtgtctg atctaccatg gctgcaaacg tgtattatta tttgggactg 60
 tc 62

<210> 33375
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33375

agcttgtagc atattcgaac gacaataact atttactctg atgtccgatt gagtcccgta 60

atatatcgag acactcgtaa ttgaaaacag aagttctgag aaaattcaaa cgacaataac 120
 tttttattcg gatgtccgat tgagtatcgt aatatatcga gacgctcgta attgaaaaca 180
 aaagcttgta gcaaattcga acgacaataa ctttttactc ggatgtccga ttgagtcccg 240
 taatatatcg agacgctagt aattgaaatt agaagctctg agcanattca aacgacaatt 300
 acttgtgact cggatgtccg actgtgtccc gtagtatttc gagacgctcg atattgaaca 360
 ctgaagctct gagaaaaagc aaacgacaat aacatttttac tctgatg 407

<210> 33376
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33376

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 aaatagacct aaccagacca ttatagttgc tggttgaata ccttcaccac ttcagtgtat 120
 cacacaatta tggtttttct ctaatgaaac actcttgctt ttttaacactc taattccctt 180
 ttgagttcta agcaattcaa gagattatgg ccacaacaaa gaacaattca ccaatatgtg 240
 taaggtaagg ctagacaatg aaaagggttaa ccaagattaa ggctaacaat ggttttatgc 300
 acanatgaag gaaataatat tcagaattta ngaattcang taacaatcct tcatgcaacc 360
 aatatattac ctttaaagag ttntttcttn taagttcttc angcatgaac cattcagccc 420
 actttttttt attntaata tnnttatcac aaaatcgctt cctttctttc c 471

<210> 33377
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33377

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 gcttcattt cactgtcaac gtgcaagact aatttctctc tgcaaaaaca ttatgttgca 120
 aatcccaaca gtgagaatat gcaaaacagg ttctaaagggt ggttccaaat tcacgatgat 180
 ccaacggttg acgagtccat gatcataatt ttactgggac agatttgggt gtatgcggga 240

gttatcatgc tataattggc cattatcctt tntctttcct ctatntcctc tagtaataat 420
atntctcttg gtgctcatct taatc 445

<210> 33380
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33380

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tcggttntgc atgaatttct aattatcata acatatgatt catggaagtg atctgggcat 120
tctttctttc ttacattttt ttagccatgg gccaaacagc tatcccaatg tacattatct 180
ttgtcatttg caagcccctt tgagtcagac acttgatatt ttattgaatc acaaacctaa 240
gatgaaagtt tcttacctta ccttaagata ggagagcagg gatgttntcg atggagattt 300
ctatcattta gtggctagtt gttggtattg 330

<210> 33381
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33381

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ctaactagat gatataaacg atggatgtta atgtgttcaa cctacaatg ccacaacctat 120
gaatcatcat ctatcttact caccaagcaa cttagctcat gaaaagatgc atgctcaaca 180
ttcagcatat aaatattacc tattctctta ccaatgtgga caactttacc agatatggct 240
tcacttataa gatagcaatt tctgtcaaac tcaatcttga aacctttatc gcatagttga 300
ctaattgtta gaaagttatg ctctagtga tccatatgta gcacattctt tatctgagtt 360
ttgtgttaat tccctatatt tccctcccca gtatattttg ctttggtatt gtctccaaac 420
atgacata 428

<210> 33382
<211> 397

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tcattcttgt ttgcgacctg tgttctatta tatgcagacc tgcacttgtg tattgtgaca 180
 ctacactaa gtgtcccaca aaaaatgcta aaaaactaga aaagaatggg cgtgttagaa 240
 ctttgaacac cacaagaag catctagatg cattatcttg gaaacacaat caaggagcaa 300
 aaccccatc tacgatctct ctgaatttga accaatcgag acaaagttag cactcaacgt 360
 acgaccgtag caaaggacgg agcatctaac ggtatggtca tagatacata caaactgtag 420
 accatctgac atccaaccg 439

<210> 33385
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33385

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 tatgacggga ctcaatcaga cattcgagta aaaagatatt gtcgtcttaa ttgggtcaaa 180
 gtttctacat tcaatttcga acgtctcgat atatgacggg actcaatcan gcacccgtgt 240
 aaaaagttat tgtcgtttga gttgggtcag agcttcaaca ttcaatttca agcgtctcga 300
 tatatgacgg gactcaatca ngcatccgag taaaaagtta ttgtcgtttg aatgggtgag 360
 agctcaacat caatttcagc gtctcgatat atgacggact catcagacat cnagtaaaag 420
 atatgtcgtt gaattgctag agcttcacat tcattcg 457

<210> 33386
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33386

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 tcccgctaac tgagtacaaa gtgacttgca gcagtttggg gagtaattaa gcactcttct 120
 atatgtcaaa ttttaaaatc atttacatat caaatatgaa tttcatgatg tttcgagtac 180
 catatactta tttatgaaag ctacaagatt caccatttg aacttgaaag ggactatgaa 240

gtgtaggata gattataatc atggtaggaa gactgtaaaa antggaaatg gatggaggaa 300
 atttgcacaa tcatagaatt tgcttactag aactcaaate atattngaatt tcttagatgc 360
 aacttctaac tttgtttaat ttggatttgt tggaattaaa gtatattact actgcactat 420
 tatcaagtta taa 433

<210> 33387
 <211> 53
 <212> DNA
 <213> Glycine max

<400> 33387

tgtttgaagc gatcccagtg ggcttgaatt agtgaagtgt caatcgatc gga 53

<210> 33388
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 33388

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 acaaaaaact gaattagtga gacatggagt tacaagattt gctaccactt tcttaacttt 120
 gcaaagattg cataagcaaa aggccaatct tagaaggatg tttacttcag atgaatgggt 180
 gaagtctatg gcagctaaag agcccaaggg gaagcaagca acagatgttg ttcttatgcc 240
 atcatttttg aatgatgttg tctatgcttt ataggctatg gggcctcttg aagtgtgtcg 300
 atgtggtgaa taatgaaaaa aacctgaata tgttcattta tgaacaatgg aatggccaag 360
 agcttcaata caatgaaaga tagatatgga ta 392

<210> 33389
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33389

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 agatcttgtg agcgcgatg atgacgtaag tctccgctg taaacaggct tgctggccgc 120
 gattgacgaa tggcgagga gacgacttta gtctctgcgt gctatcaggc ttctcggtt 180

tcagatagca gaaaggttta tacggataac cagcggggta tctccgcccg tcagcgtgac 240
 tcattagtca gtatgacaga tcttgtgagc gcgtaagatg acgtaaatct tccgcatgtc 300
 aacgcgctag ttggccgcgt ttgactaatg gcgcatgaga cgaccttagt gtctgcgtgc 360
 tatcaggcta ttcgtcttac cgaagcaaaa aggtctattc tggtaaccac tc 412

<210> 33390
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33390

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 aaagccttct tctataaatg gctntataat cgtttagtaa aactggtaaa tgattaattt 120
 gacgactcta gccaaatttc aaatagaagt gagttgtgtt gcttgttctt acactttgta 180
 attgattaca taaccttgta atcgatcaca ttgtgttgaa cttatggctt ctaagaaact 240
 ttgatatcaa tccatgcac tatcatgttt gattcacact aagcatggat aaagaaaaac 300
 taagacttaa tctaccacc atgcctagac taatacatte aatacaaatg ccacatcttt 360
 taatatgtgt ctaacattg 379

<210> 33391
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33391

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 agcaaggtag tatagccaat cttttgtcac tccctccaga gaatgaggaa cagcctttag 180
 aaagatatga tcttcttggc catcangggg cttcatgggtg gaacaaacaa tatcgaactc 240
 cttaagatgc ttatgaagat cttcacctgc aagaccatga aactngggca gcacatgtat 300
 tagtccagtc ttgagaacat atggaacacc ctcatcatga tattgaaagc acaagctttc 360
 ataagtana tcaagtgcag ccactccct agagtcctct 400

<210> 33392
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 33392

agcttatgcg catatttcct tacgaacggt cacttgacac agacattcta ttaactaaga 60
 aaaatgcacc catatacaat caaggcagct tcgttaccta gattatttac atgtacttcc 120
 aagggtgtatt tggtacctac atcacacaca tttcctttgc taaattcaca tacatgcata 180
 ctctaagcac tttggctatc gaaaattgca tacgtgcaca tcctgggtatt tctaatacct 240
 atacatacac aaactttatg ataaatcttg actatctaca caataagggtg ctacatttca 300
 tgcttttttc aagtttttgc tacctaaagc cgcattgcaaa ttcaagtata ttttcttttg 360
 ctgactaaaa ttgtattcaa aataaa 386

<210> 33393
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33393

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 aggctataaa tagaagcatg tgtaacactt gttgtaactc tgatgaatga gagtcttggtg 180
 agacacactt canagttcca cttctctcct tctttnttct cttcaatgt cgtgcccctc 240
 cctctctctc tctctctctc tctctcattc tttcatcca ttgaagcttc ctttctaagc 300
 ttcttatcca aggcttattc cctagtggat gatgcctcct ctcattctct ctctatatc 360
 ttccgctgca tatccatggt tgaaaatcac cattgaagaa cttcattg 408

<210> 33394
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33394

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 gtactcggcg ggaagtgatg gnggaaatcg acattcccat tcagataggc cccacactt 120
 gcaatgtggt gtttcaagta atggatataa atoctgccta tagctgcctc ttgngaagac 180
 cttggattca tgccctgnga gtgggccctt caacgcttca ccagaaattg aagctcgag 240
 tgggtggagt tttagtata gtgtcgggtg aagaggatat gttagtgagc tgccctcct 300
 ctgccccata cgtagaagcg gcggaagaat cat 333

<210> 33395
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33395

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 ttagattttc ttcacggaaa cgatttttcc aagcaaattc gaaagagaga ggagtgcaa 180
 aggggctgaa cctttttctt ctcccttcc tccctatct atagcaaat aggggaggtg 240
 gttgccgcc agctcgcca ggcgagctca gctcgccag gcgagccagg ttgcttctc 300
 cagaagcaac agccttctgg aggaatatc tggagggcc aagtgggct gtgtgctatt 360
 tgcaccnca tttttactaa gtacac 386

<210> 33396
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33396

agcttgaca acatgtaaat agatctattt ttttcaaaa tgaactaact aactaactt 60
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 tntacctaatt taaactaatt gcacataaca aagcccaaac tcacatcaca attattcaag 180
 tgcataggtt ctgactttca aactcaatnt atagaaaacc gatgttaaac taacatatta 240
 acatcggtt tactgganaa ccgatgtcaa cgttcatcat gcgtacactt tntctgctgt 300

[illegible]

[illegible]

tacaattata	tgatggagtg	ggacaagatc	aatcgatagg	cataaccaac	ccaaatcata	60
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tcataaaaga	ctaaagtcca	aataccaaaa	gataaataaa	gtgcagaaaa	tgataactna	180
tataccatag	ccaaaataca	cggcttnaaa	agaaaattat	anactaaaact	ctaagactgt	240
ggacgtggtg	gtggaagatc	gaagctctgg	cgaatataac	ccacatcttc	ttca	294

agctaacaca	ctttgtggac	gtattttctc	atgtatagtg	taaaattagt	tgttcatggt	60
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tttttagtggt	ggtatattag	aataaagtgt	tgtgtttgct	ctaataatat	tttagccatt	180
agtatccaat	tagatgcatt	agttgcttga	aatataatag	accggacata	attcggttgt	240
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<400>      33401
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gttgctcatt tagttgagaa ctttttgaaa tcgaacttcg ccaactggtaa tcgattacag   180
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catgaatctc tgaatattga atgactgcat gagtctcaag aatacgaatg ccatgattgt 300
tcgacattac ctcttatcca t 321

<210> 33407
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33407

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acttcatgga agacaaggct gacctcatcc attggaatta cacttgatgg aaaattggta 180
tcatccctta atggcttcta gagctcgagt tactcggggt gttttgtggg ttcacatgc 240
tactgtggcc ataacagtat aaacacaccg caactatcta cgtagataaa acctcatcat 300
ngcgctaggt agaataagaa atca 324

<210> 33408
<211> 253
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33408

tcttgcttgt acgtttttca tccataaacc tatgtggaac atttgacatt gttataccct 60
aatttcgtcc ggtgattatg attngatgat atacaacctc tgattggccg cttcaagata 120
cttggcacc cgtgctgcac aatatgtgaa ttcccagat gtgcccaaaa tcaaaaagaa 180
gcatgcgtac gcatccgtg aaaatttcgc aatgtgacat aaatcgatg gaagtgtttt 240
tcgcataccg cga 253

<210> 33409
<211> 304
<212> DNA
<213> Glycine max

<400> 33409

gtcattctac acctaaataa gatgaggaca tagccgtctt taagatataa cttcctaaca 60

<210> 33412
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33412

tgcaagcttg ctttactatc atgaaactcg tcttgcccg c tacaataaag aagcataagt 60
 gctaatttct ttgtccttga actacactca acgctattng caccaaaatt attacaaatt 120
 atgggtgattc tgggtggtttt taggggttcat atgggtcgtgg tgggttttctt aaccgcagtg 180
 ttagatgcgg tgggtggtggc tccagcagaa gtcgtggtgg tggtcagttt gccaaactttt 240
 agtatcaaca tttgccttaa gtatggacac tgcgcaattt tgccacttta agtctgatat 300
 gagttttcag cctcatgaat cagtcacctt ctttgattct accacacttc naccaattcc 360
 ctactccact ggttcaatca gagcttctaa tacctggatt aatcctaatt c 411

<210> 33413
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33413

cgtcgctgga gctaaccat caactgtcct aactctttca gactggtgac tcctangctc 60
 ttgaccttga cttgatagaa cctctnttta agcanaggcg cctgactcga tcccatgttt 120
 tactaaagtg aaacaaaacc cagtgcgaat caagactccg acatctatca tgggtggaat 180
 ggatgaatgc atgaagaaat gcatatgaca cagaccctcc gtcgagattg tcctcttctt 240
 agatacaaca ttcgggcagc atggctcctg atgtatgcat ntaagaaggc gacacgaacc 300
 ctccgtcggg tcgtgacaaa gtgaggggat caagacgcaa cccatgcatg atgcggatgc 360
 gataaaggca caacacgagg atgtacatag tatgacaata tccacaaata atcatacagc 420
 aaaggcgtac atgacatttt taaactacat 450

<210> 33414
 <211> 426

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33414

agcttgaaat gatgaagtgt agaatggtga aacttcttgc ttttattcgc tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcaa gtgnggtgct 120
attgccccaa accaagcttg accaatcccc acccaacccg ggcatagtca gtcagtgaga 180
acctgtgatg tacctaagcg ggcgagctcc tggcagtcaa cagataaaag gaactaagac 240
cacatagcaa ggaggcttgt gtggtggctg gccaaactgtg aactctgatn gatatatggg 300
atatggcctc tggtaatcga ttaccaaggg tgggtaatcg attacaacgc ttaaaaatga 360
agacaggaga ctaagatggt ctctggtaat cgattaccaa gggagtgtaa tcgattacca 420
agcttg 426

<210> 33415
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33415

tatccttatg gcttgectcc ggacttcacc ccccggtgcca cccctgatga tttaagccaa 60
gcccctactt tcgaggggca actccacact tatgaagact atcccgggca agacaatgag 120
gaaggagata cccatcttag cccctgctc cacctcaaag atccgtcccc ccatgaacta 180
ccccaaccaa acatagtccg ccatatcccc acttcaccca caccgtaaa agaactctgtt 240
cccttcgtgg aagataaggg aaagattgag gtgcttgaag agaggttgag agcagtcgag 300
ggcctcggca attaccatt ctcgattta gcggatntat gtctcgttcc caacatcgtc 360
atccctccca agttcaaagt accggacttt gataagtaca nagggacgac atgtccgaat 420
gggcaccttc ggatgtattt atcgaaagat g 451

<210> 33416
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 33416

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ctcacagtct ttagaattgn gagccaatcc aatcccttgt gttcggactc tcaaccactt 120
atgatagccg gcgatgatcc cattactgct tcccctaagc tctctgtcct ttcttcacgc 180
cgcatcccat gccttgcgaa ctcccttgag taccctcgcg ttgtgggtcac cgaaaccccg 240
tgcatgaaa ggcgtgatgc tttcgtctga tggcaactct ctcatggggg agccaagctg 300
tcttatggcg aggacgagat tataattaat acaaccctt gttccatcaa gggaacattt 360
ggacatcctt cgcatgaaga tagaatccct gattc 395

<210> 33417

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33417

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tcttcacgtt tggtttttta gggaaaacac cataactaaa cgcgccgcaa gggatcccta 120
tcgcaccaga tccaaatcta gaacgatggg tgatcaagag gagacacagg aacagatgaa 180
agccgacatg tcggctctga aagaacaaat ggcttccatg atggaggcca tgtaggtat 240
gaagcagctc atggagaaaa acgcgggccac tgccgcccgt gtcagttcgg ctgccgaagc 300
agaccgact ctcttgcaa ctacgcacca tcttccccca agcatagtag gacgngaag 360
ggacgcactg tggcacgatg gcagccctca cctgtgatac aaccgaacgg cttaccctta 420
tggattgccg cccaactatt caccacccat cttgcaagaa gatg 464

<210> 33418

<211> 141

<212> DNA

<213> Glycine max

<400> 33418

gctcatattt atggggcaaa tttgggggtt tatatgcttg atttgtaga gatgacgggt 60
tggaagggat ggccttacgc ctatgtggtt ttctgaaaca atggggcatg ccacattgcc 120
cccattctct tgcaatttat g 141

<210> 33419
 <211> 337
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33419

 agctttgagc atattcaagc aaatatcatc tnttttactc ggatgtctga ttgagtcccg 60
 taatatatcg agacgctcga agtggaacac cgaatctctg agcatattca aacgacaata 120
 actttgtact cggatgtcag attgagtcca gaaatttgct gagatgcttg aaattgaaga 180
 ccaaagctct gagcaaattc aaacgacaat aactatttac tcggatgtgt gactgagtcc 240
 cgtaatatat cgagacgctc ggaattgatt atcgaagctc tgagcgaatt caaacgacaa 300
 taactgttac tcggatggct gatagagtcc cgtacta 337

<210> 33420
 <211> 392
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33420

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 gaaatnttct catagccttc aacatttcaa gttgtgagcc gttttgatat nattacgata 120
 ccctcaatcg gacattccga gtaaaaaagt tattggctgt tgaatttggt cagagcttcn 180
 gcattcaagt ccgagcctct cgatatacta cgggactcaa tcagacctcc gagtaaaagg 240
 ctattgtcgt ttgaatatgc tcaaaaacttc gacattctag tccgagcgtc tcgatatatt 300
 acgggactca atcagacatc cgagttaaaa gttattgtcg tttgaatatg cttagagctt 360
 ctgtattcca tttgagcgtc tcgatatatt ac 392

<210> 33421
 <211> 446
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33421

agcttatcat	ctttaagtga	ttgatcattt	gtagttaaat	atcttctatt	cttcttagct	60
caattgacat	ctctttgact	cttattttct	catcttaact	catttttggt	ctaaggcaag	120
tgattgagct	taattgagaa	ttgtagctaa	atttcaaatt	ttgtgcttac	ttgacatatc	180
tatcttgtgt	agggcctaga	ggagactaca	gaactccaaa	tggaatgtgt	aagtagtccc	240
tagaaagttg	agaaaaggat	cttcaattgt	gttacaaatg	ctttagccaa	ttctggcatt	300
tcaaggggtca	cattgagctt	ggaagtcaga	gcctctgcac	ttgaataatt	gngctataag	360
tttggacttt	tattttgtga	attagtttag	ttaagtagtt	aggtagttat	tatagtatct	420
aagtaagtca	ctaacactct	atatat				446

<210>	33422
<211>	441
<212>	DNA
<213>	Glycine max

ctgagataca	tgtaacctg	tggcatcatc	aaaacattca	gcttgatcct	ttgtctacaa	60
tctcccccta	tatgatgatg	acaatcctga	aatcaagaca	agctatatac	aagatgatag	120
cccgttcaca	tagcccttac	tccccctatc	ttttggcatg	tatgcctaac	tttaatgatt	180
ttaattgatt	tctaacccaa	gttctctccc	cctttggcaa	catcaaaaag	aataagcaag	240
acaatcaata	gataaacaga	gtcaaacatt	aaaccaaatt	aatccatac	attgtcataa	300
tcaaccaaag	caaagtctag	aaatataata	atagtgcaag	attacgataa	ctagagcaac	360
ataaagccag	atacacggtg	atgaaacana	gtactaataa	tacttaatca	ctaattattac	420
ttagtcataa	taataacata	t				441

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<223>      unsure at all n locations
<400>      33423
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tcgttgccca cctgactcga cttgcagcga atacttcttt cggcagctgg cgtagaacct 180
aagacgccgg cccggatcgc acttttctca tgtcgatctg ctgatggcga ctggctctga 240
tgcggaacttc atttcttaca cctctgcgcc gtctatcact accgatattg tgctctctca 300
ncacgagact gatatgccgc cgcatacctg tctcaggcca gcacctcct acatcagggtg 360
cgcgacttaa tgacagcgtc tgagcagaca cgaacatgtc gacaactgag tgcgggggta 420
gtcaccaact agtggcgtgg gacatcagcc atcgcg 456

<210> 33424
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33424

tagctttctc tagttaatta tcataagacc ccacaagaaa gcttccatgg tgatccctac 60
aaatttctct aaaccctgcc taagatgggt tttccaaaag tcgacttaga atctatagaa 120
tttaagataa tttttctaata tacaatctta gaattttaaa aaaaattaaa aaaacctaca 180
gtaatatattt tttatcaaat aaaaactcac cataattgac tatagaattt acaaatcata 240
tttgataaaa atcatctctc ttcccaagat gatgatattt tgttactcaa taaaattaat 300
tntaaattca tgattgattt ggtgaataaa atcttanaac ttataagaaa gtcgcatttt 360
tcccctaatt ataccatgca ataataataa aaaattcaaa tgagattnta aattaaatta 420
tatatgaaga atattta 437

<210> 33425
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33425

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ttctcaaata ctctgattga tgatttgtag ttcatcacagg ctctgggttat cagactcctg 120
gtttaatgac ttgtgaccaa aattgggttaa tcagttttta tttttttatg tttagggtgtg 180
gactttggaa tatcttattt tagaattcat atatcttggt ttatgggtggg aaattaaaaa 240

aaagtataaa tctgggtatgt gtgatattca acgataataa aacaagtgat aaatcaaata 300
 ttatgttcca ttntataaat acactagtgc tttatgggtg tgctcttgg cactcccact 360
 agtcccactg ctctaacaat tattttatac ttcaaatacc cttcattgaa tactttgtcc 420
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<210> 33426
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33426

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 gtgaatagat aaaagtacct taccgnngat ttgtattttt tatgagggtga attggtgttt 120
 ttacatttgg agttctatag tagcatagggc atttgtgaca ctttttctac ttgtganatg 180
 ccgagtattt gtatgctgca acttcttgca cnatgtcant gctcatttgg ctaagaaaga 240
 ttgtttggag gatacttcta gttgttgcaa taagggaaag cacattagat ctattgttga 300
 tatatagata ctgcacaaaag agcttgccaa agaatcccgg tgttctcatg aacgaagtaa 360
 gcatatagat acaacgtatc atttcattag agagtgcatt accaagaaaa gaagtagaat 420
 tgactcatgt gaatactcaa gatc 444

<210> 33427
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33427

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 gattttttaa gttttatctc atagaaaaca cttcgtccaa gaatataagc catatagagt 180
 atactagatt cttanaaaca tttatgatat anaaataata tntttataca gactagatgg 240
 atgctttcaa ttaagtgaac acttangtat atagaaaaaa acatttgacg gcttatgtta 300
 agtagatgga ttattanaac cctagatggg attgtgatgc tagtcttaat gatacttgaa 360

gaatntacaa gacatacaca tgacacagac cctagctctt caatcttggt ctttgacctt 420
ga 422

<210> 33428
<211> 268
<212> DNA
<213> Glycine max

<400> 33428

acctcatttc tgtagtcgac gacaacgctc gacttggtgaa cttatctgcc aagagtatat 60
aactggaata actaatgtgc ctttatcaca tctcttcaca cagtaatgct gagcaaata 120
atgtcagcat tcaactgtcta tctgcattaa gtaatgagga aacgacgaga acagaacctc 180
tgaaaatttg aataatctat ctatcactcc aacgatcgta tgatcatgta tgcattcctc 240
ttgctcataa atcctactgg gttcaact 268

<210> 33429
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33429

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tgttcgctcg gcacgaatca cagcttcata caggatcatg cggcataata actaatacat 120
aactgaggaa gagatcgatg atacgtatgg acataatacg actagaactc gtttctgatc 180
taagtgtga gttatgcgct gttaagatga cactcacaat tgactcggat gtccttgac 240
gctctatctc aaacctatca agtggatcgg ctaacatgca gaacctgtta acgggtcgtt 300
tgtgtgagga tgtaaagagt gacagctttg tcatgtctat gaagtggaat cagaactatg 360
cacaca 366

<210> 33430
<211> 336
<212> DNA
<213> Glycine max

<400> 33430

agcttttact ttatctgtaa gctgtagcca ttaggtcgat caccatgtag ctaatgttgc 60

tccccctatc tctagcatat catatgtcaa taagtacttg cagtttctca tgatgaaaaa 120
 tacttgaact atggggcatg tcaattgggt tgaaacttta ttgagactaa ggtcgatcac 180
 catgggttagg aagttgattg agcacgacat ggtgacctcg acacttggtg cctagtttta 240
 ctaagtgaaa gcgtcgtgtg gacacactta agctatTTTT tgactaatga taccacattg 300
 catctgatat atgaagccta gtgcttgcat cataact 336

<210> 33431
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 33431
 gtgaatctct cccacgtctc acggagtgtg tcgtcatacc cttgttataa agtcgctatg 60
 aagttttgct gcacctctta ccaagtattg atgctattat tcggatgtga ttggagccat 120
 gtttttgctt tacctgccaa tgaaaatctg aaagctctga ggtagacagc tacatcatct 180
 tcatgtgatg ctcccatggt actacataat tgcacaacac ttattgctga aaggaggaat 240
 gactatgttg gtgatatgct atggtccttg ttgattagca tagtcaccaa gagt 294

<210> 33432
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33432

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 ttattcgttt ttagtttttag tctctctctc tctctctctc ttcttctctc tcttattttc 120
 gtttttagtt ntaggctttt cttagacact nttttgtttt gcaattccag ttttgacttt 180
 tcatttttagc aataaaatnt tgttcttcaa tctataatTT cgttctctat tgattaatgg 240
 aaggctagat tttctgggtg tgttctttt gaggcgaag cccaactctc tntgaggttt 300
 cgctggcaat gtggtttctt ggcagttntc ccttcaccag ttatcccaat ttcgtgaata 360
 ttaatcagtg cacgcttcgt gttecgattaa ttgcctctga 400

<210> 33433

<211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33433

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 gagtctaattg ttatttctcc aagaaaaggaa attctagatg atattgcaga atcttttagaa 120
 aaaatgcata tttatggaca agattctaaa ggaaaagggga aaggaagcaa tgaagatcct 180
 ccagaagaag ccatatcaaa ttatgaactt ccaagagaat ggaaagcttc aagagatcat 240
 ccccttgaca acattattgg tgatatctca naaggggtaa caactagaca ttctcttaaa 300
 gatntatgca ataatatggc ttttgtgtct atgggtgaac ctaaaaatat aaatgaagcc 360
 ataatagatg atcattggat agttgctat 389

<210> 33434
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33434

agcttgaaat gtttaagtgt agaattgtga aacttcttgc tnttattcgc tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca ggagacctg gggacgtcaa gtgggggtgct 120
 attgccccaa accaagcttg accaatcccg acccaaccg ggcatagtca gtcagtgaga 180
 acctgtgatg tacctaagcg ggcgagctcc tggcagtcaa cagataaaag gaactaagac 240
 cacaaagcaa ggatgcttgt gtggtggctg gccaaactgtg aactttgatt gatatatggg 300
 atatggcctc tggtaatcga ttaccaaggg tgggtaatcg attacaaggc ttaaaaatga 360
 agacaggaga ctaagatggt ctctggtaat cgattaccan aggagtgtaa tcgattacca 420
 agcttga 427

<210> 33435
 <211> 450
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33435

tatccttatg gcttgccctcc ggacttcacc ccccgTGCCA ccccggaaga tntaagccaa 60
 gcccctactt tcgaggggca actccacact tatgaagact atcccgggca agacaatgag 120
 gaaggagata cccatcttag cccctgctc cacctcaaag atccgtcccc ccatgaacta 180
 ccccaaccaa acatagtccg ccatatcccg acttcaccca caccgtaaa agaactctgtt 240
 cccttcgtgg aagataaggg aaagattgag gtgcttgaag agagggtgag agcagtcgag 300
 ggcctcggca attaccatt ctcgattta gcggatttat gtctcgttcc caacatcgtc 360
 atccctccca agttcaaagt accggacttt gatatgtaca aaggggacgac atgtccgaag 420
 gggcatcttc tgatgtattt atcgaaagat 450

<210> 33436
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 33436

ctagatgaca cttgacctgc ttggcggctc gaccgactat aacccttcta tttgtaatgc 60
 tgaatgatac tactagacac tcatcaaccc tccatgtcag acctgatgca ggagcatgaa 120
 cgcatagccc ataataacc gactcccca ctaacacgct atctcccacc tcttattatt 180
 tgagcataaa ggcattcctt tatctct 207

<210> 33437
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33437

tcntcggagg gagagaacga gagagagaga gagagtggca cggtttatga atgataatac 60
 ggagagaact tgaacgatga agtgtgtctc acatgtttct catacatcaa tgtagagacc 120
 tgtgttacac gagtttctat ctattgecta tgtcactacc tagattgaga ctctcatatt 180
 catttcctga gaatgtagaa ggaatatgcc gagaatatgc cctaggcatc ttatcatatc 240
 ccctttatat gccgcaagca tggatcgtgt gactctagca catgggacgc tttcttgag 299

<210> 33438

<211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33438

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 atggaaaaag gccaaagtggt ttacatgaca ttcagaggat gtggcggaac attgacattg 120
 tccgcgtacg cttgacattt atggcattac cttacatggg cgcagcaatc gctttccata 180
 gtgagctagt aataacctgc tctaaggata ttcttgcca taccatgccc attggcatgt 240
 gtcccanatg caccctcggt gatttcctta atcatgtagt tcgcctctct ggcattctatg 300
 catcgcatga gggcatggtc gtcgtttcgt ttgtacacga tgggtaccact cacatagaaa 360
 ctagtatcca atctccgtaa cgtgcttttg gcattgtcgg aaatccctgg tggatattct 420
 ttgttctcga catactggct aat 443

<210> 33439
 <211> 395
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33439

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 taaccttgca acatgtccct aggaagtaga cacggagatg gacaagaaaa tccgcagtat 120
 tgtgagtagc attnttgaat agacgcctct ntgtgcctga ttgctgagaa aagatgttcc 180
 aacatcttcc aaccaagtg tttctgtgcc tgatgctaag aaagatgttc caacatcctc 240
 cgctccaaat gctgaagccc tcccttcacc cagtgaagag gaatcaacag aagaagagga 300
 tcaagcctca gaggagactc ctgcaccacg ggcaccagaa cctgctccan gtgacctcat 360
 tgacctggaa gaagtcgaat ctgatgaaga accca 395

<210> 33440
 <211> 450
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33440

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 taaacaggcg agtccttggc agtcaaccaa taaaagaaca aagtcacga agcaaggaga 120
 cttgtgtggt ggctggccag ctatgtatct tngtgggtat atgaaaatta gcctctagta 180
 atcgattacc attcatgggt aatcgattac agggtttana aatggagaca ggatgttaag 240
 tagctactgg taatcgatta ccaattgtgt gtaatcgatt acatactttg gtaatcgata 300
 ccagagagga aatcccttga naaagatatt ntgactattg cgtagccgta tgggacgcat 360
 tgtatgcgta cctatgtagt tagatttctt gtgaaagagt ctaccctctn tcttttatct 420
 cttgtagatc gcgatgcagc acagttgatc 450

<210> 33441
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33441

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 gtggatcatc tggaatatct ttttgcaatc catattttct catgacccta tctactacat 120
 gtcattccag aattgcaaaa catatgagag atacttttgc acgaagaatc atagatacct 180
 caacattatt agttaatcac cttatttgaa gtgtctcata aggtgtccac cagaactgca 240
 agacatatat tattattgtc acatatttat aaatgaataa gaaacacaaa gaaatactta 300
 atagaaataa taaaaaatg aacttcatcc atatgtatgc tattaaatat gatgcatata 360
 agtctgattg tatgggt 377

<210> 33442
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33442

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 tttgaatctc tcttctctca tgtataaggt atctttctgg ttgagctatg aattaattat 120
 taatctaatt gttaagcaga gtaaagatt ctattataac gattcttgta gttgattaca 180

ttgtgtgatt gaatattttt tttggttggg tcatcactat tccgtaagga tgacaattgg 240
 atctattcat ctctgtaactn tctaattctt ccataaataa attcagccaa aatatgcaat 300
 tatcaaagac aataatggat tgcatatggt gagtcaatgc tatcattgga tggtcagtga 360
 accatccaac atatttctta taccattgga tcaatgggag caactccaat ggggtgtggag 420
 agt 423

<210> 33443
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 33443

tgcagcatcc ataaacaaat aggagacaag atagctataa aaaccttcca agtattcata 60
 atctacaaca ccatcaaacc catagcttta gaatccttgg ttgaaaaaga gaaaaaaaag 120
 aagcactatt tacaaatgac aaagtcaaac atgcatctag gcacatcacg tacaccatt 180
 caaaacatag aaacactagt tttttaaaaa tattcacaac catgctttcc gtcacgaccg 240
 caacgggtatc acaattacaa ttatggctac atcggagcgt ttaatctgca attttctata 300
 atgtcatagg atcacgatga aatcgcgacc ccgaccat 338

<210> 33444
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 33444

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 gtataaagag gtgaatgtga gcctcttttc ccctttgaaa gactcgttta aaataatggt 120
 ttaaaattac ttttaatgaa tatttgaatt ctttatattc cttatcacga tatatgtgag 180
 gggtagaggg tgtcacaact atcatccaaa caatttatga ttaatttttg atattatgac 240
 atacattcat aacctagtcc attgtgcac ctaaacataa tcgcatcat gaaaaataag 300
 aataggattg gagagaaaga ataattttca cacagagttg aaataccaag ccttgactca 360
 catatctact tgcttgaagt ggatccttga atggataatt gttca 405

<210> 33445
 <211> 395
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33445

agctntgata gtttgcgtc tctcttattg tattctccca cgatatactt gagcttgaac 60
 ttgggtgaatg cctttntaag tcaggtagct atggngaagt accttgtcat ttgaggatcc 120
 ttagtttacg aatctccatt cagttgtcta gtgataaatt tggagctgct ccagcactta 180
 aagtatttgg ttcctactct ttnttctaatt cttaggccga ctaagaaagt gtcgcaacat 240
 gcccttntgc aggcgagcga agcaaggctc acgggtgcgc tttccaaagg aggaaagatg 300
 cgtggagtcg ccaccaacgt ttttttgtgg gaaacgtcgg ataaaccgaa ggaaaccggt 360
 caaaatgaan attctaagtt cgggagttgt attac 395

<210> 33446
 <211> 350
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33446

nttatctggt ggattcactt ttgatcacia ctgtaccata ttgaatatca ttagtcacca 60
 canaaggacc aatccacttt gacctcaact taccactcgt gagtccaagc ctagagttat 120
 acaataaaac tttctgtcca accacgaagt ctttcttagc gatcaaacta tcaaggaact 180
 tcttgggtctt ctctttagtag aatttgggaat tctcataggc ttctaaacgg atctcatcta 240
 actcacttag ttggaacttc ctttcccttc cagcttgatc aatagagaag ttgcaggctc 300
 ttacagccca gtaagctttg tgctctatct ctacaggaag atgacatgcc 350

<210> 33447
 <211> 287
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33447

ttagcttccg tgatttgtgg agagcctnta cacaatcgag aactattatg tattgactct 60

tgctatggtt taacgacaac aggacagtgt taacgtgcmc tccatgtttc tgatacgacc 120
 aacgtataag tcacaatatg aatcatgaa tatctatata aggaaactga atagcggatc 180
 aaacattctg gacgttatat catttgcact gaactatcaa tgtgttacca ggcatagga 240
 gtctctggtc atttatgacc acgatcactt tctggaatta taatccc 287

<210> 33448
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33448

tgaacacgat catcgacact gatggaagan ctgtgtttga catgagtgga tggaaacttg 60
 cttgatgaca acaacgagta tggctgtgtg aactactttg caattgtcta tcctatggag 120
 acagcgacaa ccaatagtga gtatgatcct tatcatataa aaactcgcca tcagacttta 180
 caattgtggg gaactgtgta tattaacatg ctgctgttaa gatatgaata ctatactcgg 240
 taatacaaga gaacctcctg aagctttcaa tgactaatag agtgggggtga aaggatatac 300
 agagaagatc gatggacaaa atcattatca cattctgaaa acacctatca ggttgaaaga 360
 atgcatgact tactgctcta tatctacacg acatgatgct gcatgctcta acgatgaaag 420
 accggcgagg gcacatgggtg gtctactctc taatgttttn 460

<210> 33449
 <211> 276
 <212> DNA
 <213> Glycine max
 <400> 33449

tgcattcttc ttaccctctt attaccaca ccatacatca aacctatcaa tgttttagata 60
 atgacatcta cagaaatgca gttgtgaaag gaaaggggcc taagctctac ttgtgatgac 120
 aagtttttcc ctagccatcg ttgtcctaata aagcaacatt ctgttctact gtgggaagaa 180
 gaggatgatc ctgcatttca tccagatcca ccatacgatg ctgacacagc tggtgacccc 240
 acattgcaag atcatcattt gtcttataat gcttta 276

<210> 33450
 <211> 404

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<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33450
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ttggctttgc	accttacggt	gagtattctg	gcgagtcata	ggtgttatgc	agacatctag	120
tcaaagaggc	taataattaa	tgggtgtggg	tgttgataaa	accccaaaca	atgatgttct	180
aggggtaaaa	tggattcttg	aagcatatat	catgataggg	cattgctata	gtgcactaat	240
taacactgct	at ttg gccg	ttattgcagc	cgctctggct	actattaata	aacgactcca	300
ctatcctggt	attgactact	aaattngatg	ccctagttaa	aaaagtaatt	aaatggatca	360
taccaaatat	acaaggttag	agaaagacca	tagagaacct	aatg		404

```
<210>      33451
<211>      451
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33451
```

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tatagtcaaa tgatgaatgt tcattatttt tataatttat cttctgaaat tgttaatttc	120
atgtttcacc tacaagactg catcatttct ttcataataa ttgttgcaaa gcattgaatt	180
tgctgacaat gtgttttcta gtgatggaat ttgttaacaa atatttattg agatttttct	240
gccaatttg aagccatcaa tttgttgatt atttgctata tatcataaga tgggtggtgca	300
tagcaatntt tggttgagcc atgtctactt agtttgatan tttgtactct gtaaaacata	360
ctttgtttaa ttcataccat ttctatggaa attttcaatt acatgaaatc ttaatctttg	420
agcaccaacc tcggacatga gcaccaatct a	451

```
<210>      33452
<211>      397
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33452
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agggtgcata tgtcacgtcg accttatcac gagcgacaat ccctaaatat gtttttaatt 240
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 ctgccccagg tgggtctagtg gccaatgac atagccgtgt cgccttgctg gtccgcttca 360
 acgtagatgg agacgctgat gcgtctgc 388

<210> 33455
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33455

agcttggtgca gatctccagc tccatgtttt ggggtacttc anacagctac acacatttca 60
 tctgtgggtg gaaccataaa tccaaagggg tcccaaacca atattagtag tgatggcgga 120
 gcanaccaat catcattaaa atcaacggan agattagaag acatacaaag gaaaaaaaga 180
 agcaagtgat agagaaagtt atatggngcg tgcctgacaa aatagaaacg gtgaaataag 240
 tgctntacag atatactcac cttgtacttc caaacacggg gaaataagtg ctttacagac 300
 atactcacct tntactttta ngtagatagc tangtttggtg taattgttta agtctgagaa 360
 tttgatagga atatat 376

<210> 33456
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33456

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 aaacataaaa atgttgaaac aaaatnttgg gctatcttca attcaatatt tccttcattc 120
 tttgtcttat ccacccttt gtctgtttca tacttagatt gaggaggaaa caatcacttt 180
 aatctatgga agtgggtggac actangttat gttgattcca gtggttacct acatctacat 240
 gtgcaattct ccaattntgt tcctactaaa aaagaaaaag aaaacagcag aaaagtgtc 300
 ctgatcatgg aactgaaaaa atgtttttnt atcttgcagc tgctagccga taaacaatgg 360
 agatgaatct aatgccttca ctctttcggc cttttccgcg ctcacatttt tgtc 414

<210> 33457
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33457

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 tatattatga ttataaata accatgatca taaccataag cataatagtt tacaacaaaa 120
 tgctctcttt gaatcaattg aattagcaac tacacatttc ctttagattc tctatttttc 180
 tctacattct aactntcacc agtataatth caatgatggt tctatctcac ttagctactt 240
 caaagaaaat gacttcactc aatttcattc ataaagaaat tgttaaaact cactgtttgt 300
 agcttttaac aagggttgta cccagagtac agaaggctac caaattcaag atatgcaaga 360
 ctacgataat tatatccatt tgaactcgat aaagaattca gaaatatctt ctcaaattct 420
 ttatcattga ggattcagag tacattaagt tt 452

<210> 33458
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33458

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 gatgacaaan agcccaagag aatgagttca agattgaatc aagaacactt caagaatcaa 120
 gaggaattt gatttcaaga ttcaagaatc aagtttcaag aatcaagaat aatcaagttg 180
 aagattcaag aatcaagaaa agactcaatc aagataagta ctaaaagtt ttttcaaaac 240
 attgagtagc acatgaatnt tccacanaac cttttaccaa agagttttta ctctctggta 300
 atcgattacc agtttattgt aatcgattac cagtagcaaa gattgttttc aaaaagcttt 360
 caactgaatt tacaacgttc caattgattt caaattgggtg taatcgatta caatgatttg 420
 gtaatcgatt accagt 436

<210> 33459
 <211> 398
 <212> DNA

<213> Glycine max

<400> 33459

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acaatcaatc atcaatcacc tttgaatcat ctatctttca atctttacaa catcatctct 120
caacatcttt caatcaatct ttcaatatct tttctataga attttctaatt tcatttctct 180
tcattctttct aaaagttttt tatcaaacact ttctcttcca agataagttc tttgttcaaa 240
aacttggtgt attcatcttt ttcatctctt tctccctttg ccaaaagaac gaaagactaa 300
ctgcttgaat tcttttgtgt ttctcttctc ccttacaaaa gattcaaagg actaaccgcc 360
tgagaattct tttgattctt cccttccct taagcaaa 398

<210> 33460

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33460

taagagagaa tgtggtttat gcaatgattg acctatgctt aagagataat attagaaagt 60
ttgaaatggc cactaaaatt tatgcttaag cgagatttat gtttaaggta agtgaaaatt 120
catggtgaac actttattac atgggttttg aatgaattta attgaactta aatgtatggg 180
gattatgaaa ttgctacaat tggattctag agctatatgt taggaaattc acatttttaa 240
ggattgatca cgtgtgaaag ttaagattca tagtgtggaa tgcctcacat agcttatgga 300
actactangt ggggttctaa gtgtattgtt aagaaaatgg tgaatttata acataaaggg 360
aacttggtgt attaaagttg attgaatgta tacatgcata catgacatta catgtgggta 420
ggcacg 426

<210> 33461

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33461

agcttggtgca ttcaatatcc tgatgagggt gttccctatg ttctcaagac tggactaata 60

catnngctgc ccaagtttca tggctcttga ngtgaatatc ctcataagca tcttaaggag 120
 ttccatattg tttgtttcac catgaagccc ccaaagtgtcc aggaagatca tatcttttta 180
 aaggcttttc ctcatctct agagggagtg gcaaaagatt ggctgtatta ccttgctccc 240
 aggtccattt tcagctggga tgaccttcag aggggtgttct tggagaaatt ctccctgca 300
 tctangacca ctgccatcag aaaagacatt tcangcatca ngcaacttag tggagagaac 360
 ttgtatgagt actgngaaag attca 385

<210> 33462
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33462

taaaanaata gtcaataaac aacttaagag agaagtagaa atacttggtc tatattagtt 60
 cactcaaata nagctacgtc cagctctcct ttacataact ataanaggat ccaataatca 120
 aaactttcat tacaactagg tattctatcc taccactctt ggctataaaa gtattctcta 180
 tgtcactctt gacacaccct tagactcccc ctgaatctaa gaacacttaa gtatggttta 240
 aactgagca actntngatt ntctcaaaca aaagtttgaa tgaatacaat gattcaacaa 300
 cactcanaga gtggataaat agttaaactc aaatgcaaat aactttgctt agcaaaggat 360
 gaaaagaata agtggtgagt atatcgcca ct 392

<210> 33463
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33463

agcttgcatn tctctcccat ggctgatatc anatctatga tggatatcaa gctttgctat 60
 gctactcaca ttcttctct cgattatcat atccttcatt cttacatcat gagtgaacaa 120
 caacaagatc aatcactcaa tgtacgcagt ccttattact ttcattccggg agaaaatcca 180
 gggatagctn tggtttctcc gggtcttgat tcatccaatt ataattcatg gaggatgatc 240
 atgcttattg cattaagcac gaagaacaaa tatgagtttg tcgatgggtc tattcgaaga 300

cctgcatcag atcatgaact tcatgtagct ggggaaggggtg caataatatg gtggcttatg 360
gttggtcatt tagctctctt tcattagaaa aaatact 397

<210> 33464
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33464

ngataagtaa cctcatcctt actaaattaa gtatcttggc aacaaagata aatcacaaga 60
tcttttattt ggatgtattg ngggcagggt gaaattgana ggtaggaatt agaaagaaca 120
agaaaaagaa aatggatata aatgaatcat aataccttat cagagaatac atcatgcaac 180
taaaacacaa gggtagcata caaggagaaa tcataatttg cttcctttct tttcattcct 240
ttttcatgaa tatggatatc ttcattctac tagcttgaca tnaacagttt tttttttttt 300
ttttcgtgac aaacattgct gacacgttat tattcaactt ttaatcccca caaatTTTTT 360
atatactgct agcttgaagc actgagtcag taccaacaat tcattagtga gttgttcaat 420
gtattaatc 429

<210> 33465
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33465

tatcttatcc ttatggcttg cctccggact tcaactcccc tgccactccg aaagatttaa 60
gccaaagccc tacttttgag gggcaactcc cgccttgtag cgactatccc gggcaagacg 120
atgaggaagg agatacccat ctccggcccc tgctccacct taatgatccg tccccacatg 180
aactacccca accgaacata gtccgccata tcccggcctc acccacaccg gtaaaagaat 240
ctgttcctct cgcggaagat aatggaaaga tagaggcgct tgaagagagg ttaagagcag 300
tcgagggcct tggcaattac ccgttctcgg atntaagcgg attatgtctc gtgcccataa 360
tcgtcattcc tccaagtcc aaagtacc 388

<210> 33466

<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33466

tccattgtta aatttcgagc gtctcgatat attatatact ctgaatcgga cctctgaggg 60
aaaagttatg accatttgaa ttgctcaaga gctntcatag ttcaatttct agcgtctcga 120
tatattatgc gcctgaatca aacctccgag ttaaaagcta tgaccattng aatntctcga 180
gagcttccgt tgttcaattt cgagcgtctc tatatgtgat gcgcctaaat cggacatccg 240
aagtaaaagt tatatccatt tgaatttctc aagagcttcc gttgtcaatt taagcgtctc 300
tatattgatg cgcctaaatc ggacatccga gttaaaagtt atgatcattt gatattcg 358

<210> 33467
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33467

tcttcttctt ctcatcacia ccttaciaag aagacaaata gctaccaatt cattgcacct 60
taactctatt cattcattca tattcatatt agtaaaaagt aaaaaatcca tcatccctta 120
caataaaaag cagaagggga tacaactatc acagaactaa tctactttac ttaacaacc 180
tcttttgaat cctaactata gaaaatcaaa atcaggacct gatatacaa aaagaaccaa 240
atcaaaattc cacaggttgt ctaagaacac aactgcaatt agcaatcttc ctacaagctn 300
ggcatattac ttaatacaac caacatcatg ctacatga 338

<210> 33468
<211> 408
<212> DNA
<213> Glycine max

<400> 33468

tgttgtaaac ttccttgaac atgtgttgaa atattcggtc ttactgccct gttctgaatc 60
tgtgtgctaa gctatgttcc ttgagttttt gagtgttaaa atatatgatt atccttatat 120
ttttcttaaa taggagtttt tttagaaaaa gttatgaata aaacaagttt tagaacattt 180

tactagataa aatttgtcac gaaaataatc tagcaggaca gttgtatgga ttagttatta 240
 ttacagtttc gacctcaaaa atgagtttat tgagcgtgaa aatgtaaggt agcatataag 300
 atttgcgaaa aaccaattct cggagcatcg agaggactaa gaataagtta tgagtgagac 360
 ttggttaact gatcgataga gttgatttgg agagtagaaa cttacatt 408

<210> 33469
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 33469

ctattacaca catactgtaa tcgattacca gaggatgttt tcagagaaca ttctcaacag 60
 tcacatctta ttatctgatt cttagtggc catcaaaggc ttatatatat gtgactagag 120
 acacgaatth tataagagtt ttccagaaca ataagggtcta atcctcttat aaagaaaaat 180
 cgatttatcc tcttacaat tcttggcca aaacactggg gattcaataa ggaattatth 240
 gagtgctcaa attgggtcaat ctatctcttt taagagagat tacttctttt cttcttcttc 300
 attctgaaaa gggattaaga gaccgatggg ctcttgggtg gaaagaattc taaca 355

<210> 33470
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33470

ctaagcttgc cttccttaca agtcctttgc tacctcgta gccactggat cttctttgat 60
 tggaatctcc gctgcctgct taacaaatta aaagagaaat cagtacatgc attacagtat 120
 aaaagaatth tcataatgct attcaatatc aaattataat atactaacct ctgatgctat 180
 ttataagaaa taagttgtaa tgtacactaa tagattcaga ggtagtatca taaatttata 240
 aatttttata ataattatct tacaaatcat actaacccta atttttaatt gattgattga 300
 tactgaccat gtaaagggtt ttcattgatt gatccaatca caatatgcaa tanatnggtt 360
 gtcttctatg ataactanta caaaaatcat accaataata atttctaatt gatagaatac 420
 aagtatttat agacacaaca tagaagcttt actcaaat 458

<210> 33471
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33471

agcttggttaa tggatcaata ttctaatgt gaaactaaat gtcttgaggt tttcatgcag 60
 gcatcttatt cgtgaatttc aagcaacccc cttagataac tcaatataaa agtactattt 120
 gtcaccttat aaatgtgatt gtgagcagcc acaatgctca naagtcctcc taaaaaggaa 180
 tcagctgctc cagttgtgtc aattgcttcc acctcaaaac cagcaacca tcctttatag 240
 tcctgtgcaa caataaggaa catctatatg attaaacata actaaccat nttggattag 300
 caaatagatg ggaggaaaca tttagctcc atttntatgc atttaggatt agatatttac 360
 actaaaatag tgtttaggac ttgcccctg tgactga 397

<210> 33472
 <211> 326
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33472

tnctgaacag attgatcagc tgtttcatatc agtctagtct gattgtctcc tttatcatca 60
 acatcactgg ccttggcatt caaattctca atttcacct gttcttcac ttcattgact 120
 gtctccaatg agattgcttc tgtcgacaaa aatggagtgt gctggtcatt tttctcccca 180
 gaataatcct cataattggc tgcagaacct aaatggtcgg aaccatgata attacttctc 240
 aaacatcttc tcattcttga tgaacttttc attaaatcta gcttccagaa aacctattat 300
 ataatcaaat gtttagttaa tcaaat 326

<210> 33473
 <211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33473

agcttcaaga attaatggcc tcatcaaact acttggtccc cgaaggcaat tcaattaata 60

ggcctcccat ttttaatgga gtgggttacc actattggaa aaccgcatg caaatcttca 120
tagaggctat agatttaaac atttggaag ccatagaaat agggccttat attcccacca 180
tggttgctag aaatacaaca atagaaaagc atagggaaga ttggagtgaag aaagaaagaa 240
gactagtaca atataactta aaagccaaaa acataattac atctgccctg ngaatggatg 300
aatactntan ggtatcaaac tgtaaaagtg aaaatatatg tgggataccc tacaagtaac 360
acatgaaggc acaacagatg ttaaaagatc taggataaac acattaactc at 412

<210> 33474
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33474

tgtacgcaca tcgttcgcgt gtatgatatc cactccacaa ggtttgaagt agaggagagc 60
ttcaacccta taacgcaacg tggcagacaa aagtgggcag taaacttgaa tggtcgtcat 120
tgtcaatgcg gaaggatttc tgcgcttcac tatccatggt cacacattat tgcagcttgt 180
ggttacgtga gcatgaacta ctaccaatat atagatgttg ttatacaaaa cgagcacatc 240
ttataagctt actccgcaca atggtggcct cttgggaatg aagcggctat tctccttct 300
gatgacgcat ggacacttat ccctgaccca actacaattc gtgcgaaagg tcggccaaaa 360
tcaacaagga taagaaatga gatggatngt gtcgaaccat ctgagcaccg aacaaaatgt 420
agtagatgt 429

<210> 33475
<211> 371
<212> DNA
<213> Glycine max
<400> 33475

agcttgccct atagagatcc atgaaagaca aagcggctga aggaaccaat tccgcgtcct 60
gaatatgaca gccatcattt tatgagcgt gatcaccaac atcgcttcga cgccatcaaa 120
ggatggcat tctccgggc acaccgtcc aacttaagga caccagtata ctgacttcca 180
tgaagagata gtttgccggc tgtgggcatt tttagttacc cccatggcca cgttcgacac 240
atacatattc ttccagtcta tgcgcatgct tggcctatag acgatggcgt gcgagatatg 300

cgattctggg cgacgcgcca gtggatccct ttctatgcgg atgccctcta ccacgtcctg 360
gatatccttt a 371

<210> 33476
<211> 402
<212> DNA
<213> Glycine max

<400> 33476

agctttaatc tgtcatatct ttctctgaac tctgatactt gttgagttct ggcccagtg 60
cccctattaa tgtacaaaaa ttagactctt cttgttcaaa gaaagtcttg gtcataata 120
tcaatttgag ttgaggtcca cattattggt atgctactaa actattcaat agtaattcat 180
taaccagggg aaaaaattat atattcattt atgaattcgg aattaagaag gaactgattg 240
cactgcaaac ttacaaaggt acaagatatt tgatcaatga tgaaggcttc cacggtgcac 300
tctacttgat cgatattggg caaaacgacc atgctgattc atttgccaaa aatctgtcat 360
atgtgcaagt catcaagaag atcccagtag ttataactga aa 402

<210> 33477
<211> 531
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33477

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gcgnnttga tcttaccctt acgttacant actcgtaccg agacctctga tcgactgcag 120
catgcagctt ctatcttata ttgctatata tagggggaga agtgaataac aataggggttc 180
acgcacctta agcactatct ctatcctctt gagatagccg acgaaaatta ctctccgtga 240
acataatcca agctcgagcg cttaccacac ccccgcatc gtttcctgag tcattaggcc 300
aagatattaa aaagcccctc caaattcatc agctogaatt gagatttctg cgggtataaca 360
cagcctacct acctttaacc acagctccat aattccatct atgtacacgt ggcggccaca 420
ttatgtatca tgttcaacta ttcccgttcc attcggtata tacccttgt gacggcctat 480
accactatth aagctatcct cgctatacca aacaaaataa cttcacggtc c 531

<210> 33478
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 33478

agcttatgtt gtgatttctc atgtcctcta ccatagtaca atcgaactga agatgcgtct 60
 tatattaaat atttgaatct tttattcatt gtaaacctaa ttccaactga atttagattt 120
 taaaatttga tatacccccc acattcatca tatattttta cttttattaa attttaaaga 180
 tattgtaacc ttaatcaatc ttaatatgac tatgtctttt aaattataca ctatgataca 240
 tctcattaat aaagaacata gtgcttgatg tatataaatt atttgcatac ttaccttttc 300
 aattctaaaa gtgtgggtgtc tttgatctat tcatatttac tataatacca tacaatattt 360
 acgattaata atcaaaacat ctatgattaa t 391

<210> 33479
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 33479

gatccaaact ccagaccagc acacataccc gctgctattg ctccgctatg aatataccat 60
 ctgtgataga gcggaagaa cctatgccat tgtccatgca ttatcgctgc cccccgcgaa 120
 gcagcagcgc acttctactc atatcgatgc ctcaactcgc ctctcctgat gatccttgaa 180
 aagaatcggc atggcaagcg aagaccaaca tctacatata caatgcacaa tgacttgctg 240
 aacatcaagc taccattgtc cataatctat cctgtgtaag gacggaaatg ctcgcatcca 300
 ttgtccttat cagttatatt acctaaccce tcaacacaac cgaagctatt tcgagacgca 360
 aaccg 365

<210> 33480
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 33480

agcttgccctc ccagctcgcc caggcgagca gggttgcttc ctccagaagc aacagccttc 60

<400> 33483

agcttcggta gaaagtgatg aggtacaagc cctaattggca gagcttgaaa gagccccgggc 60

agtctatgag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120

ggacgtccta tggccacagc tgaagccttg aacgagaaac caagaaggct cgaaaggaag 180

aacacgacct aagcaaagtt tttaggggct ttatagggca tcaatagtga gctcaagctc 240

cgaagatgtg aatggaatca tcacgggtca caggcctgat cttgaa 286

<210> 33484

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33484

agctttacat ggagctatat cagttcacac aatatagttc aaggaccaa aagaaataat 60

cattcaagct caaagtgggc aactagggga aaacttatca aaggattcac aagtcttaag 120

aaagcctatc aaggtctccc ttttcacaaa attcacaatt attcaaggat atgtatgtca 180

aaacagagaa tagaatactg ctattgaaag gatcaattct cacacaataa gagaatcaag 240

gctcanaact cacctatctg agggtaacct taagaatagt tcacaatcat gcatgctaatt 300

gtccccctcc gaagaaactc caattaccca ataaacacat tacttttggt atcaataaaa 360

ttctaaaccc aagacatttt cacagtacta gaac 394

<210> 33485

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33485

agctttgcat gtttagtgat tctagagaaa gaaagatgag tctttgaaatg gttgtgagat 60

cctatagggtg aaggagacat cctcaccact tgtatttttg caatctttca tcttgttctt 120

ctcttttttg taaagcgcgc ttcttggtta tggaaagcta aatcctatgt tggatcttct 180

ctatagggtac ttgatgtaaa tatcttttta tctatttaat gatgttctgt gtgttctcta 240

tgctatctgc ttttcattct agtatgcctc taccttgatc acatagatgc atgctttggt 300

anggtcattt cacagtggaa actggtctga ttcttatgac cttgatacga cacggctaaa 360
 ttgttgact atcacgagga atc 383

<210> 33486
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 33486

agctttaact taatcaattc aaaagccttt tgtgcttgtt cattccaccc aaacgcaccc 60
 ttcttcaaac attcggatcat aggacttgct atagtgttaa aattctggat aaagcgctga 120
 taaaatgatg caagacaagg aaagatctca cctccgaact gttgtagggc tcggccaagt 180
 cttgatagca tccacttttg tttgatcaac ggatactcca tcttttagaca ccacatatcc 240
 aagacacacc acactttcaa ccaagaaatc acactttttc ctctctccat agagttgttg 300
 tgctcttatg gtctcaaata tttgtttcaa atgagtgaat tgcccctcta tagatttgct 360
 atacaccaat gtgtcatcaa gataaacaac 390

<210> 33487
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 33487

cgctggtgga atcttgaaat atatgctgaa tcgaatctca tatattgtgt gccgtgtccc 60
 tcttagagat tgattcaatg aacttcacga tctattgcct gtataaggca acccttgcct 120
 ctacaacctt gacttcaggt cgtctacaag gtgcttcgag gctgatacgg ctctatgcc 180
 tctagcccga tatatatctc attctcaatg agaaccattc tgttttgcag tgaagaaatg 240
 ctgccttcaa catgcctatg gtcataatgg ccttaaacct tggaagtgtt gctgtcctgt 300
 ctgctactcc acattaagtg atggtctgac gcgttctact aaacgaaaga ttaatgcttc 360
 tctctttgac tgcact 376

<210> 33488
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 33488

agcttgattt atgggtataca tgatacatgt cacggcttgg gttgagtcaa agataaaagg 60
 gatgccctac attatttcca tgacacatat gcaaaaatga cgatttggaa attttatgca 120
 aaattgggtt ctctgcacct atgctgacac ttagtgtcaa atttttatgg tcatgtgatg 180
 ctaaggctca agatttattt cctctatttt agtcaaccca acgtttccaa aatatgttct 240
 tttatcaatt tgagcattaa tccgagatca tttgggcgtt tgggaaatat ttcacagcat 300
 ttaaccttta tgagtattac acattt 326

<210> 33489

<211> 332

<212> DNA

<213> Glycine max

<400> 33489

gagetaagcg cgccatgctg tgctaagcct attctgcaca cagaaatggg ttttgtgtct 60
 tcgagcttaa tgccagcctg ctgcgcttaa cgctgagta aaaccatac agcgcgctta 120
 gctcacatgt tgcgctaagc gccagctcaa aatttcagtt tatttttctg tttgtgaaaa 180
 taacctgtgt gaatctcttg tgtttatttc acatttcgca gatggcatcc cacaaaagga 240
 aatctctctc tacacctacc caagtcagat ttgataggtc catatttaca tctctacaag 300
 cttgggagac atacactgac attgtggtgc ct 332

<210> 33490

<211> 404

<212> DNA

<213> Glycine max

<400> 33490

attcttttat ttaataaaga agcttgagag atatgcaatc tctcacagaa actatgatgt 60
 cacacaagtt cactcgtcaa ctcaaacaat agatcaaagc ataaagatgc aagttgaacg 120
 acccggcaca gcagctgacc ttaaaattga gactaaaagt tgcagcaaag gatgcttcaa 180
 aggttgatcg aaattcacgc aatcacagca aaaatattct tgaaaaaata agaacgatga 240
 tttggattat aaaggagagg aaggttacca gagagaggag aagataaatg gaaaggaggc 300
 taatcgattg gagtatgtat cgtcattggg cacaacttaa taaaagaaga aatggggttg 360

ctatgtcaaa atagaaatgg tctgttagtc cattttaccc tgac

404

<210> 33491

<211> 493

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33491

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cgtcncggga tccttagagt cactgcagca tgcaatcttg ttatttatac ctctccttcc 120

tgatggatag agcatgagac caagcatgat aaagattatc ccgctccata agtttctgaa 180

catctaaact gtggcacatg atgagaatgc actgtatgac cccgatcacc ctcttagcgt 240

caaaccatga agatattcaa tcacttctgt gagcttgagg cgtttgtctt gatccataca 300

attcttgaca gccttgagct cgtaatttc tagtctgtga agagcattta tcatgcacaa 360

tatatccac catcctgtga caaatgctct gtccegaagg ggacacaaac acaagtccaa 420

ttcctttaa ggatgttaca tgctctcaat caatgggaac attcctgatg caatcccccg 480

ottatcatta tgc 493

<210> 33492

<211> 356

<212> DNA

<213> Glycine max

<400> 33492

agcttgcttt attacaagag aaagatcatg tgactagaat tatgaatgat aatgttagtc 60

agtttgtcag attgatcgtg aacgaatgca ttatccataa accggtgaga gtgtgatcct 120

tatcctcgac agaaacgact atcatcagta ctgatttgtg catgaatctc tgaagtatgg 180

actgaatgct tgatattaat aatgatgaag gccatgttcg attgtgatag gcacttaccc 240

aaaaagctaa ccatgtgctt aaatgattta tcccttgaac ccaattttga gttgattgat 300

tgactgattg attggaactt gagcctatac aatcttaatt cttgcttcct tgtctt 356

<210> 33493

<211> 397

<212> DNA

<213> Glycine max

<400> 33493

atatcagatt cttcttgcct ggcactacaa aacctctctg gtgggtcata tagatgtctt 60
 cctttaaaat cccatgccag aatgcaagtt taacatttaa ctgggtccaag tgaagattct 120
 cgctactatg ctaaaataac tctgatggta gtatttttac aactggaaag aagatctctg 180
 tgaaatcaaa tcctttgttc ttgtgaaacc ctttcaccac aagtctcacc ttgtatcttc 240
 ttctaccgtc agaatctttc tttagcctat agaccacact aatctgtaac gcgttcttcc 300
 ttcttgcaat ttagttaag acacgtctat tcttctaaag gatgcatctc atcttcatcg 360
 tagctccact catagtgtca tccctgtgta cctactg 397

<210> 33494

<211> 406

<212> DNA

<213> Glycine max

<400> 33494

agcttctact tatgtgacag ggcgggcttc cttcactttc ttgcctcaac cgcgagcttt 60
 gaccaccgct ctttcttccc acaatgcttc tctctatata cgctgagtg ggtttatagc 120
 ctaaaccata cttccccgac ttcctttggc atttatcaac tagttatgcc gccgttgtct 180
 ttgcctaaac ccattccggg ttcgtaaccg ttccccaaaca taacacgggc catcattact 240
 gctgcatcgg acaggcaagc ttgccagag aaggagtcca cgaggaaat gcttaccacc 300
 tcaaaagact ggaaagcggg ttctaataag tctctgcgg cttccacata aggcataaag 360
 gatgggcagc tcaccaagat gtcttcttcg cctgatacga tgacca 406

<210> 33495

<211> 411

<212> DNA

<213> Glycine max

<400> 33495

agcttgcatc ctcattatca tcttctgatt tgacttccaa cactctaact caatttctta 60
 cggtgtaaga aaacaaagac ttcagaaacg cgtgaactct ttcgcgggtt ccaagaaacc 120
 agaacatcca ccgtaactcc agaacaaaac aacaaacaat aaaaccccag aaaagacaat 180
 tcataatttc atattccgcc aatgacctc atccatatat tatattaata cgcaactcatt 240

aacaccaaaa cgaaaaataa cactacgaga actcatagaa tagaacaatg aacaaaacat 300
 taaaactaaa agtttgatgt atatgcactc tccattctgc tgccgcggtg tctccgaatt 360
 aaattaatta atttttaata tcattgtcat catagtcagg ggtggaccta t 411

<210> 33496
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33496

agcgtgagct gtgcgttaag ctctcgcaact aaccttgagc ggccgcgctaa gcgagctgtc 60
 cactttttcc attnttcttc aaggettttt cttccacttc ttgcctcaat tttccttcaa 120
 aacacttaaa tttttccctc ttgacttcta ctgatcaaaa taacaaaaat attaatttct 180
 tcattatttc attaaaaata ataatcaagt caagaaatta tactcattta ttagtcagaa 240
 tagactatta aattaactca tatttcacag ttatcaacaa caattgatta atttaaataa 300
 aagccaccat tgagtgcata gatcaatt 328

<210> 33497
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33497

gcagcatgct agtttactcg tacagggtgcc agtcctgagt gggatggcca aagcgagaat 60
 atttacctca ccctctatga aacgatgacc actgtcccaa tcttagtggt acctaaccg 120
 aatgaaactt tcgtcgtgta ttcccatgcc tccacgatgg gtatcgaggt gtgcttatgc 180
 aaaggggaca tgtagcggcc tatgcttgtc gaccgcttaa catacatgac aggaatcatc 240
 ctacacacta tcttgagcag cagactgtat ctttgatctt atacttcgga ggcattacct 300
 ttatggatct cactgtagag cgttactgac cataacagcc tgagatattt gtntgatcta 360
 aaagaactta acattacgca cagcgaatgg ttacagttcc ctaaagatta cgactttccg 420

<210> 33498
 <211> 202

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33498

agcttatggt ttgatttgtg acctcaccat ggaagaggtc tccacggagg ccattgcctc 60
 cctcatccaa tatctacaac gcggncctttt tatgtagctt attcnttttg ggactttcaa 120
 ttaacacaca cagtggccac cccgacgaga tcttgcgagc cttctgggag gaaggaaacc 180
 atatcttttc tggggatctt at 202

<210> 33499
 <211> 306
 <212> DNA
 <213> Glycine max
 <400> 33499

agcttggttt taatttggtg tatggtaagg tatatgtcca tgtctaggaa tgacataatt 60
 ggtttacttt gatgggctaa ctcaaaaatg atgggacaag tctcgtatat caacttggat 120
 aggagggatc cctcgctttt gtgcggggcca tatgattttt ttaaaaaatc tatgtgaatg 180
 ctattatgtg ctcaatctta agtttgctac tatgcatatt ttaacagctt ttattgcttt 240
 tcaaaaatat aaatacatat atattattat tgtcagctca tgttattaac tcaattcctt 300
 tgggtac 306

<210> 33500
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33500

agctttctctt tccgttctcc aaattccacc gaatccaggg atcactactcc atagttcaaa 60
 gaatataaaa ttcatggccc agacaaaaat cttccgttct tcttgccatt caaagcacia 120
 tagataataa acccacacac cccataccct ctcccttttt ctttttcttt attttatgtt 180
 tattgtgaga gaaagaaata aagccgagcg ttgagaatcc cgtctctgtc aacttncacg 240
 gtccaataat ttcgattcag ccattcctgt tctttctctt ttcttcttcc tccgctctctc 300
 acttcttctc 310

[illegible]

<210>	33502
<211>	510
<212>	DNA
<213>	Glycine max

ncgtgccanc	gcgganncgc	gnattgaant	ttcgtatttg	atagacactg	acacactaca	60
cggcgacatn	gagctccgca	cgagtggatc	ctctagagtg	catgagcatg	tcttcatgct	120
ccaattatat	aaacggcgca	cttcgatgta	ttagaggact	gctgtgtaca	aatgactaca	180
atttctatct	cagaatatgc	tcacagcgac	atatagagta	aaaccgggtg	tgtatacccg	240
cgaccgaacc	acacttaaag	ccttgagctc	attgtccgtg	tattatacaa	gagaccgggc	300
atgccatttt	gaccccttaa	atgtactacg	cgaacccctt	gcagatcctc	gagcaagagg	360
aacagttctc	acgatttaca	cacaatcatc	ccaatcacgc	tagagtgtgc	gtacatacac	420
atgatctcgt	ccgaactcct	gcattaaggg	attgatgtcg	atctttataa	aagttgcaca	480
cctctcgccct	ctctctctac	tgttaccccg	.	.	.	510

13949

<212> DNA
<213> Glycine max

<400> 33503

tctatggacg tacctcgact gaaatcctct gatagccctt ttgagccatg ccacccttat 60
cctttggtga agctcactac acccctctta gcgaataact ctgacatcta cttatcccc 120
ccgcaccccc gagctctgac acagcctggg taaaagtggg gcggttacag cctccttgga 180
taacatgtaa tgccgtgccc gctacatgat ctattccgac ccttactgca tgaataccgc 240
atatcgccac actgtcgccc atgcaaaatc tgatgtcgtc tctcaccggc ttctcacgat 300
gtacaactcc acgcaacgtc ccccatctca ccgaaatgca ccacactgga cgaataccac 360
ctgactgaca cataatcgag agattctgcg 390

<210> 33504
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33504

agctcgcatt ctattacaca agtcttgcaa ttgattacct aaagatatct tcagaaaatt 60
atttccaaga gtcacatctg ttcaaattgg ttttacatgg ccatcaaagg tctatttata 120
tgtgactagg aacacacccc cgctgacagt ctttttaaga acacaaatgt attatttctc 180
ttataaagaa aaatcttctt atcctcttaa aaattccatg gccaatcac tngcaattca 240
ataacgaatt ttttgagtgc tcaattgctc aatctatctc tttcaagaga gaattcttct 300
cctcttcac cttacttctaa aaagggatta agagaccgac ggtctcttat tgtatagaaa 360
tctgaa 366

<210> 33505
<211> 372
<212> DNA
<213> Glycine max

<400> 33505

agcttatgtc tttctttagt tataacgtta gtttctctta agtttgtgag tgtttatata 60
gaacgcataa attatctttt gagaaagata acgcgcata tgttaagagt aattaaacac 120

tctgtgtagt gtgaagctcc tccaatctat catcttatct aaattgagac gtattgaaat 180
 tttgttgatt cttacaacaa ttaccataaa agtcatatct aacataattt ctgattgggt 240
 aaccgcatga gcatatacga atcatactct tgctattgggt taatcttaac ttataccaga 300
 aagtcgattc atcttatctt attcttttct tttcagtggt cgttcacgag cttatccgaa 360
 tcggactttg tc 372

<210> 33506
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33506

agtncaaagg cgggagcnga atttgaaacc tgaagcaatg cgaacacacg gcgaatacag 60
 ctcgtgaccc gtgatactat aactcgcacc tgtaagcatg cacttctttt atttttatac 120
 aacactgaac ctctgattcg acttgccggt catgtggccc aaaacatctt acgaaggggg 180
 gttgaatcaa tcatattgca tactattccc ttaatgaaaa tcttatttta atttccccag 240
 cactctgcac gtccctataa aaaactctta catgattgat ttcaaagaac aaactgaata 300
 tatacatcac gctatagtaa attgaccacg ttaatgtcat gaaaagtgcc tacttgata 360
 tatactgggc tgtcacaccc ttgtgccacc ttcatgcccc agtcaacctt tagcaagtct 420
 attagtttgc aaatccttta caatgttcga cacacaagcg caatcctact ttgtctccga 480
 tgtcttataa caagagaccc tagc 504

<210> 33507
 <211> 562
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33507

cgccgcaccc atctcnacat tcccaaactt ctgagcatcg ctagcttcac gccatctata 60
 tcacaccctc gataacaccc gcgcgaggtt gatttgatgc gtggccatca cggccaatng 120
 acatggaccc gggaactgta agtcaactgc agcagcaact tcaatttatt tttcatctcg 180
 aacaacacaa caaacaggtc acctcttata tacggcccat aacaaatccg cgccagctat 240

aataacctcg cacaccgcgc tgagaaaact aatctactgt acgcgcccc gcaccccata 300
 ctttgcacaa actataatgc aacttgcaaa agtgcaggtg ctgttcgatc tctaccaaac 360
 gcaatgtctc ccagtatatc ataccgcaca tgtaccctca acgtcaacac cactgccatc 420
 tgtcacaact gtcaatgcac atgctccgtc acacaacata aaacgcacat catacataga 480
 ttacataatc gcacctccaa aggcagaccg acacgtcaat cacatagcca aagtgactct 540
 ccaactgcaa attcgcacga cg 562

<210> 33508
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 33508

catcgcttgc gtgtatgata tccactcgac aagggtcgaa gtagaggaga ccttcaatcc 60
 tataacgcaa cgtggcggac taaagtgggc agctaacttg aatggccatt attgtaaacc 120
 cgcacggtat tctgcacttc atatacatgt tcacacatta ttgcagtttg cggctacgtg 180
 agcctgaact actaccaata tatagatggt gttacacgaa tgagaacatc cttaaagcat 240
 acttcggaca tgggtggcct cttgagaatg aagcggcaat tccttcttct gatgacgcat 300
 ggacactaat ccctgaccca actacaattc 330

<210> 33509
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 33509

atcttcatga tgatgaatca agttgattca agtaggtttg atgatgaata agatgatgac 60
 aaaaagccca aagaatgatt tcaagattaa gacaacaagt tcaagatcga gataaatttc 120
 aagttttatg gcaacaaatc aagaagattc atgatcaaga gaagtttgat ttcaagattc 180
 aagagaagat gaattcaaga ttttagagaa gaaatcaaga agactctcca agggaagtat 240
 tgaaaagatt tctcatataa ctaacatagc acgttattgt tgttcacaag aggtttctca 300
 caattttcta agttactaga gtttttattt tctggatttg atta 344

<210> 33510

<211> 215
 <212> DNA
 <213> Glycine max

<400> 33510

atctttttgt tttattctat gcacccgtag aggttcacat tgtgtttcga gcatatatat 60
 actaatcttg tgtacctttt atacgccttg ttgacgtgct taaccattg cacttaagat 120
 cttttagctc actctgaatt agaatactgt cttgcgtgag tgatgtatcg aataatccat 180
 taactacgga taaaataaat tccctaccact tagtg 215

<210> 33511
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 33511

tttatgactt taattcaacc ataattgagg tgcaatatca agttatcggt ctgatcacia 60
 atgaaactgg tcccttcgac attacaattt gggatgatct tttaaattga aattaccccg 120
 actattcatg gtacttgcca acaatactta tggaaactat gcaacgttct cattcctatc 180
 tacagcaaaa tgtaggtata actaatctca ttttcaatgc ctttttttct atggaatcat 240
 cttataccca cttatatctt ttttgcgca tacatcttcc aaaatctatt ctttcctatt 300
 actcatattc ttctcctcgg a 321

<210> 33512
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33512

agcttatatg ccattcggaa tatgggctcg tgtctgtggt ggacaacact tagccatgac 60
 agaactgaag gtgattttgt ctcttattct gctgaagttt cacttctctc tctcattaag 120
 gtacacccat tcacctgcct tccgtntggt atagaacctg gccagtgagt tgttcttatg 180
 atgacaagaa ttttaagcaac aatgtaacag atgaatgatg aaaacatgca ggtaatggga 240
 tgggtgatat agtcataaga catcatttct ctagctgatg aatgctaata agttgttttt 300
 ttatccaaat tagataataa tatttttttt ttatgaaagg aagatattct tatacttcga 360

agttatgaga cgaagatgat caaaatctat ca

392

<210> 33513
<211> 130
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33513

agctcgggta tgtccttctg attctgtcta tacatttatg actntatggc ataagatgaa 60
attcaaagat tggatctctt gttagttggtt attaatgaat agcttatata cttgtgcttg 120
agtgaacacag 130

<210> 33514
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33514

agcttccttt ctctactgt tctgtgtcgg gccagcaaaa ctgttgcagg tatctttgcc 60
tctgaatgaa cgttgtgctt attattatgg cctattgctt cagtggcgta gatcccataa 120
caattatgct tgcacccctt ttgcttccga gactaactat ttgattgtat gttctcttgt 180
tactaaactt ttgatttttg accggaactg catgaggcat gaaagtttca aagtgggtca 240
accacagtaa aataggatgg tcagtttatn tctgggttct atgacaagtt ttagatctgt 300
cttgattact ggaccattgg atgagcacc ttgtggtggt gaacaactag cttcattctt 360
ctggatgtgg ttatgagctt tcgatgctag tggatcttat atatca 406

<210> 33515
<211> 224
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33515

agcttctctt tactttatct ttagccttga gttgatctat caaaatgcga acttttgatc 60
tcagctcatt ttctcgatgc atagaaccat tgacgttgaa ctgagttact tgaaggcgtc 120

ctgtgggtta tggtccttac cataattact tagctctgca tatacactgc caaacacatc 300
 atataatagc attgacaaac actcttttat gctgtatcgc acgacggtga cacattataa 360
 tgcctatcca tccata 376

<210> 33519
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 33519
 ttctatcggt tatatgcaaa ttgtacatga cactaattaa ggatgacgag tgatgacaac 60
 gggtgtgaaa aaatatataa attacactat aaagatatct atgcaaaacc atcacaactc 120
 agacgtgtaa ctctacccc aaacttacia atacctcaat ccaaactcac tatagatttc 180
 tataatcttc tattgcttga tgaagccaag tgctaaattc aggattgatg ctgcgtaatt 240
 tctgcttcag aagctctccc tgtga 265

<210> 33520
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 33520
 atctgcggt tgcaatctta atttgtatgt caggcaatag tcattcttct gagaacaagt 60
 gtatttgcgt attgcaatgt ttggtttgtt aacttaatcg tgcattgatg ttgtggtgat 120
 tttttgctgg tggaattttc cccattaatt taccatgagt tctaactctt tggaacaaaag 180
 ttacagaagc atgtgctgtg tgaaatgtac catttgcatt t 221

<210> 33521
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33521
 atcttttgta ttgaactntc tcatttctat gttattgcaa gcttgtaagg aaacctgaca 60
 atatcatcat ctttggtgaag ttcaatacca tcttcaatat gcatgagata tctcgcaaac 120
 ttatctcccg caatgatcgc tgtttctcgc aataacgatc tttttgatag ctcatgaacg 180

agacttaaca atacatgcac aaatcatttg cgtccttacg catttcttga caataacatg 240
 tactcgacaa aaattccctt ctaataccat cactgtccct ccacatggaa catcacaatc 300
 taaaatatcc tttatgaact atccactgct cacaagcata tctatatgtc atgagtgtgc 360
 catccc 366

<210> 33522
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33522

agcttggagt tgcataattgc taaggcttct ggttttagtt actccatatt gtcgacaatt 60
 aacttggggg cctgtcttca tgatctttaa gtttaatgtg ctaagttggt tcaagtttgg 120
 tctttggcaa gtgtcacaaa gatattcatg acccgtaatt aataggaaag attcaacacc 180
 tataggatat gaagaaactt ttagcgtatt gctaaattgc tgatttctta atatgatgaa 240
 agactaactc aatgatgtct actccaatat caatgatata gagtcttggg aaattgaggg 300
 tttttgctta ctaaaattca aatactgaaa gtnttatttc cttaatatct tggttctata 360
 aagattgcaa taaacaagaa gaacagagac actcatcttc 400

<210> 33523
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33523

agcttgcttt atatgtttat ntataggatg gatctttgag cttcaataat gtccctcaat 60
 catgattttc atccatggag gtgccgctga tgattaagga gaagaggtga taggaggcgt 120
 catccactag agaatacccc tggcacgaga agcttcacac caagaaagtg tcttggatta 180
 aaagcttaca gaggaagcga atcacacaga gaggcggggc gtgggaattg aacgaaatca 240
 tggagacaag atgaactctg aagtgtgtct cacatgttct acattcatct acattatgac 300
 aagtgtaca catgtttc 318

<210> 33524
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 33524

ttttgttctg ttcaaacctg caaggcgcgga ccaaggtgaa tattgctacg cacatgccct 60
 ggtctcgaca tagattcata gtgtgcatat aggtttctta actcatgac atccagtatc 120
 tgatttgcg cccaccccat gtagtttcca gagtaagagt aactacaata gccatcacag 180
 caagctttat aactgggttg aacaaagttc tacacgggaa tcgtgcatgc ctcacccagg 240
 ccggctgcag gctggcttat ccaccaagaa ctgcgattgt ccatggacct aaagggtcat 300
 ctttgtgagg tctcgaccga atatcggttg ggacagtcac accgtacaca aacatcatgt 360
 gcgctatggg agactgactg gaatggaatg aatgacaata cg 402

<210> 33525
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33525

ggctctactc ttttcagaac ttgcatcatc gtagcagttg ccaacacaga aggtagataa 60
 ctcatgaacc tcgaatctgc aatgttgga aacaaaacga aaagcaaatt aaaatctaaa 120
 aacaatatta tgaataagaa aactgacttg catgaaagat gtaacaaaaa tacctccaat 180
 gagggagaga agaacgcctt cagacttagt gaggaactcc cagaagagat gatccttcaa 240
 tccaagtctt cttgtgaagt aatcaagaaa agagagagag gttggagggt tcatcttcca 300
 tccaagagtg ganaggatca aaatctccat cttntaata gtcttggtt cgaacaagta 360
 tctactcttc ttcacctaca caattc 386

<210> 33526
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33526

agtctttatt tcagtggcac cagcaccagt gtcgggtcg ttaccaccaa tgactcgctg 60

gccaacaaaa acctgtccaa agagaaaaag tatttatatg ggatccaagt taaaaggtat 120
tcaatccaaa ccgaacggaa tatagtatnt ttatgggac caagttaaaa ggcattagat 180
gttaatttgt aattcttatt tcttagttgt tatagggtga tcaaaaataa atttttatat 240
tatttcttag gtggtatagt tgtaatccaa gttatactat ttttatatta ttccattctt 300
taagaattat gaagacagac aaataatatt tatctatctt tcacaaaaaa aaaacaaaac 360
actgggttat cacatctgac ataatggcca ctacaatgtt ct 402

<210> 33527
<211> 406
<212> DNA
<213> Glycine max

<400> 33527

agtcttcttg ttatattgta tgtcctctga caaatactgt gctaacgaaa tggaataata 60
agacaagtg gttacttaca taatcatcga cagtatatgc atttatcaag ccttggtggc 120
ggatgcatta aatacagttt gttagcaatc gctcttctac ttaatttaga ttcttaatca 180
atgtcttaaa atactagtta gcattttact tatcttaagc tatagtatat agcctcgtcc 240
tcattaataa ttggcagtag taaagcagta aatttacctg gagagtataa tggtgaaagg 300
aagggagaaa acgcatcttg cagtactcat tatacattca tgtgaacaaa attaattggaa 360
tggttgatat atatacagca tgtttcaact tcaatgcaaa taaccc 406

<210> 33528
<211> 405
<212> DNA
<213> Glycine max

<400> 33528

cttcttgcaa ttcttcgggt ccttgaagat atattaacac tttctttgca gctgtccagt 60
gctctattcc tggattactt tgatatctct caagcattcc aaccacaaaa gcaatgttag 120
gtcttgta caaccgcat acataaagct tccttaatga aatgatatgg aatgttcctc 180
atctgctccc tttcaagctc atttttaaga cattgattca tattgaatct atcacctctc 240
acaatagggt ccatgtttgc tgaacaatct ttaatccgat atctttctag aactttatca 300
atataggcct cttgagacaa gccagaatc ccttgagatc ggtttctatg gatctctatg 360

ccaatgacat atgctgcctc tcccatatca ttcatatcaa aattc

405

<210> 33529
<211> 334
<212> DNA
<213> Glycine max

<400> 33529

ttcttgccgt catttatgag ggtactttgt atcaatcaat gattatataa catttactac 60
agggtgactat actttgaact tatcttaatt tattgatgct attatgaaaa ttatataagc 120
aactagatgt cccgactagt aacaagagaa tatgcaactt gcaggggact taatattgaa 180
ttttggtgtc attatgtacc cctgttggtt tccaccattg gattatgcat tgagatttac 240
gtaatactat tttattttct attttgaata ttgcgatttc tccttggtat ttatctgggt 300
ttcctaccaa ttttcttact tgttcatcta ttat 334

<210> 33530
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33530

agcttgtttc aaaggtgaat gtgtagtat ttttatatgc agaagcaaac caagaacctt 60
gtgtgccatc gtatgttgag aatcatagtg aagaaaattt agcaccaaaa cgatctctca 120
gcaaactatt gaaagatcaa actttaggaa caaatgctt ttgtggatat aagaaggcta 180
aaacgtttac atgatccaag gtctgtata gattcacagc agcaagttga aacctccagt 240
ctctacctaa tgtaagtcct gctctgttcc agttctcaat ttgtcctttc aatgactatt 300
gttgatgcta tcatactcac tttcctgttt cctcatantt aatgggtaac attcggcata 360
ttatgaataa ctttctttaa tccttc 386

<210> 33531
<211> 235
<212> DNA
<213> Glycine max

<400> 33531

agtcttcaat ctttaataata aatcttcacg acgcgagctc cacaatcggt aagggttagt 60
 gctttctggg gtgatgtaaa gcgttaaagg ttacacctat ggccttatgg ggtatactgt 120
 ctggtcttcg aaccctcttc tcacgtcaaa gagccgacaa aatattaatt aaaatacata 180
 gacgatctta tgcgacacca tgccattagt ttatttgaac ttacattct atgac 235

<210> 33532
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33532

agctttggat tactcagttc atcagaatgc tagacgaaat atagatggga atagaggtaa 60
 caatggccgt aatgacggac cgaggcagaa ccgggttgag ggagtaaagc tcaatgttcc 120
 tcccttcaaa ggtagaagtg atccagatgc ctacctgnac tgggaaatga agactgagca 180
 cgtatttgcc tgcaatgact aactgatgc gcagaaagtc aagctagcag cagctgaatt 240
 ctccgactat gcccttggtt ggtggcataa ataccanaga gaaatgttga gagaggaacn 300
 gcgagaggta gatacatgga ctg 323

<210> 33533
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33533

ntgagcaaat tcaaacgaca ataactntng aatcggatgt tcgattttgt ctcatagaat 60
 atcgagacac tcgtaattga aaacggaagt tctgagaaaa atcaaacgac aataagtttt 120
 aactcggatg tcctattgag ccctgttata tatcgagacg ctagtgattg aaaacggaag 180
 ctttgacaaa aatcaaacga taataatttt taactcggat gtccgattga gtcccgtaat 240
 atatcgagac gtcataatt gaaaactgaa gctcttagca aattcaaacg actataaatt 300
 ctgactcgga tgtccgactg tgtcccgtag gatatagaga tgctcgtaat tgacaacaga 360
 aactctgaga aacatcaaac gacaataact tttaacttgg atgtccgatt gacccttaa 420
 tatatcga 428

<210> 33534
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33534

agcttgcttc tacaatcttt ctcccttttta tgatgacaaa cctaaaatca agaaacacat 60
 acaaactcta tcttctaate gatcactcac ttaattcccc ccctttgttt ttgagttta 120
 aacttcactt gaagttaagt tatttaatta tatgagttct tgattcagtc ccaatttttt 180
 ctcccccttg gcatcaacaa aaagccaaag tgcgtataga gacattaaat catacacaaa 240
 ctcataatca tncaagcatt ttaatccata caacaagcaa ggaggacaat aattcataca 300
 taaactaagc agggaagata taattcatcc attactata ataaaatgtc agaataatag 360
 aaagtcaccc cagataacca nnattaaaca acctaatag aaagtaatat actaataagt 420
 gtatcaaata agtca 435

<210> 33535
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33535

cttctagtat ttataagtct tcttggtcaa gtgtgctttg tctctaattg aatataagnc 60
 ttctcttgag ctaatgtcta atgctcatgg tcgttgaggc atttaatgct tacattaaat 120
 gcatgtattt tttcatgttg aaacaccatt ctggttgact gttgtgttga gcactatagt 180
 aaaaaccact tcctttgact aaaggacaat atcacaagaa ggggtcttga attgcgattc 240
 tatactcttg tttttttaa tctttttcac actcaaacca agttttcttc cgaaagaaaa 300
 actttgtaaa atagataaca aattttcaaa aacacaatca aatgatgaaa gatgattntg 360
 ccaagcccaa gatantttca aatgtataaa tgagaattca aaccctaggt caattaaagc 420

<210> 33536
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 33536

agcttcatgt aatgtgctat aagttggggc actggagggga agaggtgttg ggcttgttct 60
tcgagcccag tggcctacca cgtggcatgt ttgtagggtg gtttgtgaaa gctagtaagg 120
tggtcccaag aggateccctt gtctgagtat gagaaaggaa attctacgaa agggagttcg 180
ccatggaatt gtctgtcata atgacaaaga ggtgaatgga atgagaggag gaaaaaatgt 240
aagaggtgta tgaaatgttt caagacatgt attctgtaga gataggggga gcaatatgaa 300
cactaagctt tggagcttga agtagtatta tctatctaca tgccctaactc tatgcgtggg 360
attcgtatag attggtgcat ctcatctctc atcttctcat atgcatatca tgcattatca 420
tgtacacgca ggaacatt 438

<210> 33537

<211> 461

<212> DNA

<213> Glycine max

<400> 33537

tggtttctct tgcttagtgc attctattct attgtatcgc tcgcttagtg ggctcttctc 60
gcttaacgca ttctattcag gtatgcacgc ttagcaccta ttgcgcgctc aacacacgtg 120
acaactctcg agcttaacgc ctctcttagc gcttgtgcct tcctgaccgc cttagtgcatt 180
gttgcggtgct aagcgcgagc tctgggctgg gcctttctga tttcttcttt ttcttctttg 240
ctatttctca ctttttgctt ttagcacctc cagtttttat atctgcagcc aaaattaaac 300
acaacatcaa ttctttaata tttaagcgca cataactact acataattat cttaaagaca 360
attttgcttg attttctact atcaaagtac aattatntag cacgtatcac tatatgatgg 420
atctaggaac tcacgggtaa gattaccaa agctgatggt g 461

<210> 33538

<211> 219

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33538

gcatgcgttt nctatacact accaagccca gaggcgttaa cggcgcgggt ggccatgcta 60
actccgctgc cggcgtacgt ggtgacgttg agttggagcc ttggggagtc atcgacggct 120

tgagtctgaa cggggttggt gagactgttg aagttggaga tggatagatg aaagaataga 180
gagcgtggaa ctgaagaagc tccactcttt gtctatcgt 219

<210> 33539
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33539

cgtgtncgtc tccatacctg aaacaagaca tagaggaatg agtcatgntt tctacgcacc 60
cctccgagaa agagatatga acagcaatca acgggagttc gtgtgagcag ttgataaaaa 120
ctaacctaga atatattggt ctgccagaat cactcagaac aaaaaaatgc tttttccttt 180
ctctccatga aatggaagca tcattctgca ctttatttat taatgaaaca gaatatgata 240
ttacactata tatccagtgt catgccctct tattgcttga atctaatagc ataaacctct 300
gtatgagaac aaatgcagct cttaactgga atttcaaata tctcatcata gctataacaa 360
cag 363

<210> 33540
<211> 346
<212> DNA
<213> Glycine max

<400> 33540

agcttctagt ctcaattttg agcgtctcga tatattaccc gattcaatcg gacatccgag 60
taaaaagtta ttgtcttttg aatctcttac aagcttccgt tttcaatttg caacgtctcg 120
aatatattac aggactcaac ttgacatccg tgaataaagt gattgtcaat gcaattgtct 180
cagaacttcg gatctaaatt gtgagcgtct cgatatattg catgactcat tcagacatcc 240
gagtgaaaag ttattgtcat ttgaatttga tacgagctta cgttatcaat ttggagcatc 300
tctcgataaa ttacgacact ctggtcggca tccgagtaaa aagtca 346

<210> 33541
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 33541

tgaaggcaaa ctggatgctg tggtaactt ggtaacctat ctggccttga atcacaaatc 60
 tgtacctgtc gcaaggggtt gaggtttgtg ctctctgtct gaccaccata cagacctttg 120
 cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgcag cacatatata 180
 caatagacct gctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaca tacaaccctg gatggaggaa ttacctaac ctccagatggt ccagccctca 300
 gcaacaacaa caacagcctg ctcttctctt ccaaaatgct tctggcccaa gcagaccata 360
 cattctcca ccaatccaac aacagcaaca accccagata cagccaacaa gtgagggccc 420
 tccacaacct tccctcgaag aacttgtgag gcanatgact atg 463

<210> 33542
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 33542

tatctttgtt ttttaagaaa agtcagtctt tcaactcaaa cagaaagtgt cagaacattt 60
 agcctgaaga cttctagttt ctgagtaacg agagcatcat gcagaaaata ataacagaga 120
 aacttcgggt gatgggtgct tagaggatag tcagaataga tgcattgctt caaaattgtg 180
 tcaatccagc agtcatattg aagtctttct cgatgaatct aatattcctt ctaatgatac 240
 tttgatgcct caagatacat ttggagggtg aaaatcttag caactacagg ttgagtcaat 300
 tccacatgtt gcaattccag atggaatcca gcataagatt tctggaagta aactctggtc 360
 ttaacataaa cagatctaaa ctcaaagatc aaaat 395

<210> 33543
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33543

tcccaagttt ttaagttctt cctcanaact gtcctaactt aagttcccaa agtcctatta 60
 acaacttccg tttgcccatc ggtttgtggg tgacaagtgg ttgaaaataa caatttagtg 120

atgccggatg gctgactctn caagaggatc ggcccaatgt aaggaccaac ccgctcgcaa 420
tcat 424

<210> 33548
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33548

agcttggttt gnttccgcag actcaacaga agtcagttgg gatagagatc agactatgtg 60
catgaatctt acacccagtg gggtattgat aggaccaaga gctttggcct accctaccgc 120
ttacctagat acctatcgtc caccatccca ccatcatcct tgcttatccc ctttgatact 180
aaggaagagt ttcatgaaca attaaccaaa gaaaggcaag aaaaagacac ttggaagagg 240
agatgccagg agctcgagca agagaatgag actctgaagg ggaagatagc ccaacagagc 300
cgttgagttt ttatccagaa ccagaggatg attgagaagg acgacttgct tcgtccatag 360
acgctttgtc caccgagatg c 381

<210> 33549
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33549

actcaagctt gaggttggtga aaagaataga gtccatcatc accaacttct tctttagtaa 60
gaattctatt ggtctcctga gatttcacaa gatacacatg aggggtgaaac agagttgtct 120
tacgcaaatt gactcacact taactgattt ttcgaaattg aaggaacatg taacaactta 180
tgaagcttaa aggttatggc actgtcatta cgagatacaa aaattgacga atcggagttg 240
gagatactta aacctttacc attgcctatg aaaatctgct angtctatca aatgagtaa 300
attgtatatt attttgagag tcaccagtca catgaaaact ggctctagaa tctagtatcc 360
aagtggagcc agatgcatca ttaccatgac aggaggagtt tgtgagcatg gcattgggct 420
gactgggact acgaacagtg gacttagcat tggc 454

<210> 33550

<211> 431
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33550

ttcttgacca atcccaaccc aaccgaggca tagtcggtca gtgagaacct gtgatgtacc 60
 taagcaggcg agctcctggc agtcaacaga taaaaggaaa acaagaccac aaagcaagga 120
 ggcttggtgt ggctggccag ctgtgaattt tgtgtaatat gtggattgtg gtctctggta 180
 atcgattacc aaaggtgagt aatcgattac aaggcttaaa attgaggaca ggaggctaag 240
 atgggtctctg gtaatcgatt accaaggggt gtaatcgatt accaggcttg anaacgaagt 300
 caggaaactt agggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagag 360
 gaatgggtca ctggtaatcg attaccacgc atgtgtaatc gattacacag tgtattattg 420
 catatttcat g 431

<210> 33551
 <211> 464
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33551

tgtgattgtt aaaaatatat ataaaaagat taaatccttg aggttntgca cttgcacggt 60
 tgagaagaaa actcactcga ccaggagctt gtggaaaatg cccaaagaca attgtgataa 120
 tagggtacat ctgatgttag tcaactcatgc agactcctta ggattcctta tgaatccaaa 180
 ggtggccttt cttgtacaaa ttctttcggg atcaacccat gacatcaagt ttagcaaga 240
 tcaactgacc catggcatga ctctatgata ttaaatacag aaagtttcac ttggtcacat 300
 accaaagtgt gacaatccat tgccatcctt caatggggtg catgatcgat cccaaagcca 360
 tatattttct tgttgtgcag aataatcaaa gctnttaaac gacaagggat gaaccttagg 420
 atctaaatct caggtgatta attaaatggt gaatggctcc acta 464

<210> 33552
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 33552

caagcttggt tangctgctt angtccttgg actgaatgat tcgttaggat tcctcaaagc 60
aactaaatca tgagtggtaa tattggggag agacattaaa acctaaagaa gagtaacaaa 120
atacatcact caataactaa agcttttagaa attagcatcc tcttctttgc aagagaattc 180
caaatggcaa atgcagtcga gcgacaagaa aaaataaagt agccaacaga acaagagaca 240
tactaacctg cctgggagct gcgtgtctat cac 273

<210> 33553
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33553

acatactgtg taatattatt agtaagaaac atagccttct atatttgata actaaacctt 60
cttctccttt tgcattcgta tacggcatga aatatgttac tcctggaaag tccccacctt 120
ctacttcggc caatccacca tacacaacat cccccaccc aaaatcgact tttccaaaat 180
gataatatat atctcaagtc tgacacaaca tataaacacct tacagttgcg aataagcatc 240
gatccttaat caccattaga tctgccacag aatgcatata ctctccgtc acctaactnt 300
tcactaggtt gattccactg catacccaaa tggatttgca caaagctatc ctgcagcggt 360
gactgctgca cggtatggaa cagcattgcc gtaataacct acgggtaact gatgatagaa 420
ccgtgcacgt gcatcgacta tgca 444

<210> 33554
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33554

agcttgagtg ttattctggt gaggttgagc taagcgcgcc atgctgcgct aagcctattc 60
tgcaaaaaga aatgtttttt gtgtcttcga gcttaatgcc agcctgctgc gcttagcgcc 120
ttgagtaa attcataaggc gccctaagct cagcatgttg cgctaagcgc ccagtcaaaa 180
tttcagtttt attnttctgt ttgtgaaaat aaccttgtgt aatctcttgt gtttatttta 240

cattntgcag atggcatcca agaaaagaaa atctccttct acacctaccc nnagccagat 300
 tgataggtcc agaatcacat ccctagaggc ttgngagaga tacactgaca ttgtggtgcc 360
 tcgaaagcta ctaccagaga ggaatgtggt agtttattac ac 402

<210> 33555
 <211> 501
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33555

cgatactata gacaactcaa gcttgttagga ttatggggta cctatcccag tgggtactagg 60
 tggcggtctg gctatggtgc acaacaagtt ctccacatcc acaatgcgcg cataaaccga 120
 ccateccctg tggcccacct ccaactgagc tcacgtactc ccatgtagcc catatccccg 180
 tttctctcaa caccgatcc ccatcaatcc tccaagctt ccacaacatc caagcaaac 240
 aacattcaaa tagaacaagc tatcacagcc aagcaaaaca gagcaaaggc agacaactct 300
 gccaaaacgc caaccaaadc acagcttttc tcaactaaag accccagtaa caattccctc 360
 gttccggttc atcaaccgtt ggatcgactc gaaaanttta ctagaagtct ctagtactta 420
 agcctacatt gtgaccgttg ggatctacta gcaaacatcc agaactcatt ctgtactgct 480
 cttcccacag ccaaccacac a 501

<210> 33556
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33556

agctttatta cactcatata gtagtttcac accatccgtg ccaccaaacc cccaaaacc 60
 acatcaaac catcgaaatg aacattntta cgaactttca atagtgtctca tggagggaaa 120
 atgaacacgg aaaacaagag ggaaaagata aggggttcctt atcattgaac tagccctcaa 180
 actcaactaa agcacaacta ccaagtcctt tgagtagcgg aattcaaggt ctcaagctct 240
 ctaatgaaag gttatcttgg agagagagaa gaaagtgaag tgatagtatt ctaagtgggtg 300
 gttcagactn tgaactcttt actttgnagt tatgactctc cctattnttt ctaatcacac 360

ctcttcactt gctaaactca acccgtccca tccctatact caagaaccac tcattctgat 420
tgaacaacca gcctcatcgc tacggatcat actctaate 459

<210> 33557
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33557

actagctgga tgggttggtt atttgacttc ttgtcgcttt tatacataaa cagccccacc 60
atcccaattn tgcaaaaatc atattcatat atcattgggg catttcaccg agcactttgt 120
gggggcacgt ttggacacaa attgcaagag aatagggaca atgtggcatg cctcattgct 180
tcagaatata acctaggctt aaggcctttt cattcaaate ctcaattcaa gaaaacaagc 240
accaaagcaa accaaaactg cctcacaat ataagcatgt tctcacaatt taaggcacca 300
aaagatgaag aaaacacatc aatgggaagc aaaaacatca aggatggaat acttacttgt 360
tggagtgaat tgaaacacca aaaacgaaag caaaacgcga tcaanaatgg cttangggag 420
caagaaaccg caagccttcg tgtctttatc 450

<210> 33558
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33558

agcttgtctg tctgggtgga tcaaataaac ctgagaattc ccagtttttag tggaccccaa 60
tatatactac tctagaaaag agacaaaata gctttttaca cttaatttaa ccagaaattt 120
gaaaaaactt ttgaataaaa ggcattgacta attactgttt actaatgta cacgtaaata 180
cgtttttcat ctctcanaat atgacgggtt tttacttctt ttttgctgga taaacgggtt 240
tttactttta tctttataca aattaaattc aatntcagtt tttatatntg acaaaaaaat 300
gatatgaatt tatacgtcca tcaggaactg aaaagaaact aaaaactaat gtattttcaa 360
gaatgataat aattttcatt tatatataat atagttacaa ttcatttgaa atgatgatat 420
acttaacttt atccttat 438

<210> 33559
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33559

ntataagcgc gggctctcgg gacaaaggtc aagtggtcgc gatgttctat gatgatgttc 60
 cgagtacatt ggatttggtta cgaccatgct ctcttgattc ttagctggga aattggcgag 120
 tggaggaacg ccccgacatt tacgcaacga gcataatgta aacctttacg gttttaaaaa 180
 actttatagt taggcctagg ctttagagtt tcttttggtta aggctttgtg tcttttggtc 240
 taaatttata atacaaggat ctttcttcat ctgttctac gtctctaccc attctcatcc 300
 atttcatggt tacttcttta tttctgaaac ggcagatctg atgacgagtc ccccgagggt 360
 actaatacct gngacctgcc tatcaacttc gagcaagaaa cgaatcacac agaagatgaa 420
 cggaatgagg atgtgagact tccncggaa ttagaaagga tagtcg 466

<210> 33560
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33560

agcttgagct tcctagctta agcaccatag gcattcacta gtgcaatgtg atcttttagct 60
 tgttggtgta tcacatccat tcgggtccta agagggtcag atttcaatgc caaaaagggt 120
 ctatgcacgt atgcattacc agtcgtggga agatcctggt aacaaaaaac acctaaacaa 180
 ttacatggtg ttcatcatt tactcaaata accaagtggc aaagttttaa ataacagttc 240
 gcaacagcga tttcagcctc aacatcaagg ttttggtgact atgtaagcaa tttcccgcaa 300
 tgtcaaggat cgcgacgaaa ccgcaatcta aaatcttgcc atgtgggtta tgcttttaaac 360
 tanatctaca aaaat 375

<210> 33561
 <211> 477
 <212> DNA
 <213> Glycine max

<400> 33561

cttgagacaa ggatcctcca aaagcaccac actatctggt ttcacataaa actaagagag 60
aggattctag gcttgcagaa gtgtcactgc ctccgcaaac cagtaccctc cctcttcagt 120
tcacacaacc ctgtaataaa gatgagtatt gtttctcttg cttacctgca aattacatca 180
aaacagcatt aaagaagaac aataataaca acactgaaaa acatgtgaag ttcgctgaag 240
ttatcattca tgtcatgcca ttatttgagc aattaaaaca aataagcttt aatcagctag 300
acaagaaatt atgtgcgtgt gtgtgtatta ttagaccaa ttcctattat cctatagtat 360
taactattaa atgacaacaa acatcttgga gccacataaa tattctatat tctacaataa 420
tgattgatca tttgtcttga cttagtgcac atgaatatct ggtcaatgca gctaattg 477

<210> 33562

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33562

agcttccact ttatccaagc aatttatctt ccaaatatca tgaactacc taaaccaaga 60
aaacagggca gaggcagaaa actctgcccc aaacacattc aaataccaca gctntcccta 120
ctcaaatacc ccagtaacat tctctntggt ctgattcggt aaccattgga tgcacttgaa 180
aantttacta gaggttcccta gtacataagt ctacatcttg accgttgagg tctactagaa 240
aatgtccaga acccaatatg tactaccttt cccataacca acaatgcaca agcattntct 300
gcacatgttg aaaagttctg ctgcacaatt caacaacatt cttctgcata atanggcaga 360
attcgaaatc catcttgccc acatccaatt ntgctcanat nggatcctac aagtcctaca 420
tcattgtataa atcatatata aat 443

<210> 33563

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33563

aactcaagct tgagtgtttg ctatanaaaa caaactaaaa ctcgagcttt aagttttcat 60

agtcatacgt gcacacaaaa ttgacccana atattanact aaaaatccga cgaaactaac 360
aacattaaca aattaacaca actaacanat taacataacc aacaaaact 409

<210> 33566
<211> 213
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33566

atcttattct ttgntctcc taccctcttt ctaatctatg acactagttt tataaaatga 60
tttctaagaa taatgatata tgatagcaat aaaactcatt ataattaaat tcttcgatct 120
aacgcaaccc aggagatatc aaatcatcta acgtatatat atatatatat atatattata 180
tctattataa tatatatata tatatatata tat 213

<210> 33567
<211> 250
<212> DNA
<213> Glycine max

<400> 33567

atatatgggt aaatcccaac tagctcttgc atatgccaac gttaaggctg tgaattatac 60
ataagattca ctaaaatata catctcatga agctataact aaaaaaatat cttagatat 120
actaatagct caattagctc aatattgtat aagcatttga caacttatac acttatcctt 180
atctttctaa taggagtgag tcgtgtactt taagatttat ctaattatga ctgggttagca 240
tactcatact 250

<210> 33568
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33568

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gccaacacac aatatactac aacaacacag ccacaccatg tcatataaga cccaacctac 120
aacacggagg acactaaccc atagaccgat agcatgcgcc actaaaacat catgcgtctc 180

gaagaagacg gtcacccctcc actntgcata atatctgaca tggtccttgg ttgggttaac 300
aatgttgcaa agagcttaag cactangaac ctaaccttca ccacttgtgg tgcttatggt 360
atcttggcct atatctctat ctgggtcccaa cctcctcata ggaaaactga ttctgatgag 420
ttccatgttc cggaattcc tcaa 444

<210> 33571
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33571

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cctatatcca cagagaagag attgctctta aatccgcgca acatcctctg tggaggctct 120
actatgtctc cacccaaatg cnttaccttt gagactctct tcctcagagc tcgcttgcta 180
atcttcaaca gctgtctcac atcaattaga gccagcttgc catcacttga tgcggaaaca 240
agccatggaa actcataggc aagagaatac acaacagctg agtgaggaac agaattagta 300
aataagctgg ttttctatat ttacgagta agtcagtttt aatggattag catagtcaat 360
aagtggtttc tatctttaag gaacaagta gccttaatac tctgctttgc taatatctct 420
gtatc 425

<210> 33572
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33572

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gaccttcaat cctattacgc aacgtggcgg acaaaaatgg gcaattaact tgaatgggtca 120
ttattgtcaa tgcggaaggt attctgcgct tcactatcca tggtcacata ttattgcagc 180
ttgtggttac gtgagcctga actactacca atatataaat gttgtttata caaatgagca 240
catcttaciaa gcttactccc cacaatggtg gcctcttgag aatgaagtgg ctattcctcc 300
ttctaatagat gcatggacac ttatccctga cccaactaca attcgtgcga caggctgtcc 360

<210> 33573
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 33573

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 gctctccctc gagatattaa gcaaaaaaaaa gacaacacca tgggtcacca atgcttcaac 180
 aaccctaaat tgtgtaaaga gaagtgccag cagtggcaac aatttatcaa tttatagctc 240
 caaaatttcc aattgtgttt gtctgaatta agagctgaca ttgagaaaat agcctcagtt 300
 gcattgatat ttgcctatat ttatttctat ccacctcttt ttaacaaatg tttccatcag 360
 tattataacg ccgcttatcc attgattcat cgaagttcaa gtatatccaa tgcattaata 420
 atttggaac tatattagtg aattatacag aataccac 458

<210> 33574
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 33574

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 aatcaaaaga tgtaactctt caaaagggtt ttgaattttt caaattgggt ttaagttttt 120
 ctaaaagtta taactcttct aaatgggtctt cttgaccaga catgaagagt ctatataagc 180
 aagggttttt tttgcatctc aagtatcttg aatacttttc caatcaattc tttgcaagcc 240
 ttgaatctct ttgaacttct tcttcttcat tgtacaaaaa gctttctgaa gttttctggt 300
 tttccaaacc ttgaaaactt gtgctattca tctttccatt ctcttctg 348

<210> 33575
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 33575

cttgagactc gaggtgatag aattgatctc tatgactgca aagccgggtt ctctttcatt 300
catgggaacg actcattcga tgttttcatt cggcgtgaga taaacgctgt gtttttggt 360
ctggcagttt gcttttgtac taccc 385

<210> 33578
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33578

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atctttactc agcccataac aaactttctc cttaccacc acccagttat gcacaaaggc 120
catccctaaa tctaccacaa agtctgtcta ccgcacttnc aatgacgaac accaccttta 180
gcacaaacca acaacaccaa ccaagaaagt gaattttgca gcgagaaagc ttgagaattc 240
acccattcc agtgtctatg ctgattgtc catattactt gatattcatg gtaccatacc 300
ctagccaggt catcacctca 320

<210> 33579
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33579

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ggtatctgag gatcacttga aattagtga aaaaatcatt cccgtgaaga aaatccaagc 120
cgaggcgctt ccgtaacact tccgaaacgt ttccgtgaag attttccgcc gtctttcggt 180
cattcttcgt cgttcttcgg tcttcaatcg gtaagttctc gatatcgaac ttttcaattc 240
attgtatgta cccttggtgg tctcacttg tttcgcgtac ttttattttc atttcgttta 300
ctttccgtac ccccttttga cgtgcttttag tcatttattt aagtcatttt ctgcctaat 360
caaaaaaatt aaataaattt ccaccgatca ttcgaattga acatccgtta attccggtaa 420
aatgaaatcc gactgttcgg tcatgccgta ccacg 455

<210> 33580
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33580

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 ttggacactg gtaatcgatt acatcctctg gtaatcgatt accagagagt aaatttggtg 180
 aaaaatactt tttaacttaa aattcttggc caaacctttt gctacttcaa tnggaattcc 240
 ctctctatct aatataccct ttctaagact ctaaagactg tcttgatcat ccatcttgaa 300
 tatctnntaa ttctttgtct tgaataaagc ttgagacgc atgtgatcct ttggcatcat 360
 caaaacatca gcttgatcct ttgtctacac atatcttggtg gatcagttct agt 413

<210> 33581
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33581

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 ctgnggctcc tccatgataa gcacatgttg tatttgagtc gtatcctcga aaaaattgag 120
 gtcgaggaac cttggggggt tatggctacc attgaattat ggagtagaca taagagcaag 180
 gtagcatagg acacaaaaat tgggggagaat tctataaaact tttttgctgg aaaactcctt 240
 ccttggttgg tgttttggtt tgtgctaaaa gtggtgtttg gcattgggtg tgtggcacgc 300
 aagctttgtg gctgatttag tgatggcctt cgtggatgat tgngtgggtg gtaatgaaaa 360
 gggctaacgt cggctgagta atgacattgt tgagcangta gaanatttgg catgtangaa 420
 tggcagcaaa acatgggttc cttccgcctt ctcatctct cta 463

<210> 33582
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 33582

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 gattaagtgt aatgctagga gtgaccatga gaatactcat tgtagtcaga agtggcatag 180
 aaaataacttg gttgtgatca aatatttgat caggggaacc ctaacagggt taaaggagaa 240
 ctggacgtac ctaaagagtt gggacgaacc aatatacaac cgggtgtgttt tcattaatgg 300
 tactatatat aacttgcct ttgctttaag tcaactctac actatcatat ccaagctttg 360
 cagactgatt gtttcaacac acatcanatc ctttggtatga aatccttggt ccattgatat 420
 ctgctctaag aaaagtcttt at 442

<210> 33583

<211> 421

<212> DNA

<213> Glycine max

<400> 33583

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 cgattgacgc caaaatatag ggctagactt cctaagagcg actaccataa acgccacaat 120
 tatggctagg agcttttagaa tccttgagac ttaccatggg attataaccc ctgctattac 180
 caaagttgga gtttttataa aaaattacta tttaagatat atgaaacttt ttttaactta 240
 tctaacagat atttcagaca ctagtatatc tatattctct ggttaaattt gtcatgaatt 300
 gtttctttca ctgctagtag cagtaacagg atagctctgg aattaaacgt gatcaatgag 360
 catgtattac aatatcaaaa tctaattgagc aacataaggt gatgagcgta cgctagctaa 420
 c 421

<210> 33584

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33584

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 caacaaagac taataatcat ctaccttatc aaagcaaac gcactacaac gctgacccta 120

attttcaaac aaatgggtcaa gtgcttgtgc agctnttcgt ttgaaaagta ctaaatacata 180
 atacgccaga ctatcatcaa atgaagtggga aagagaaaat gttaggattt gcctcctgtg 240
 ctcttaatat ccatttagct atatttcttg attntntttt agtaggatag gataagtata 300
 ggtgaataat ttttaaaaaat atttaacatg attacatatt taatatttga atcataaaca 360
 attgttaaat taaaacaatc tcacgtcaca tgcttc 396

<210> 33585
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33585

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 aagacatgga gtctcacaaa gctaccaaca ggaaagaaag ccatagcagt aaaatgggtc 120
 tacaaaacta agttgaatcc tagaggagaa gtaacaaagt tcatagccag actgggttga 180
 aagggatttc tgcagaagca aggtctggat tatgatgaag tatttgcccc tgttgctang 240
 ttggaaacag ttagacttgt aatagcaatg gctagctaca attgctggga agtacaccaa 300
 atggatgtaa aatctgcatt tcttaatggc tactagaag aagaagttnt tgtcactcaa 360
 ccaccagggt ttgtgatgaa aggtagagaa acagagggtg acaagctgca taaggccttg 420
 tatggtctga aacaggcttc cagagcttgg aacaagagaa tagatacctt tct 473

<210> 33586
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33586

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 cttgtaggtc gtagcttaag atgtgaggat gaaatctaatt attagatggt aacaactttt 120
 cgaaataata ttgatgtcca ggtattggta aaatttaaaa atcaatatgt gtaaagagaa 180
 atacgtgtga tttgtgngt gtagtggttaa tcttttgagt atctataaaa gaggggtggac 240
 tagaaatgga agatacaaat ttcactctac atctttaatt gacctttcac attanaatgg 300

tgattctgac gtgacacttc tatagaccgt tgagaatgta cttatggaaa tgtgataaat 360
 gatgtgaaca ataaaacaat ggtcgattag aaatttaatt aagacnatag ttttgtccta 420
 tattactaat tgatcatgtc caatcaaagt 450

<210> 33587
 <211> 473
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33587

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 ggctgcagca cgggtccgc ttccctaact gtactggaag cggntgtcgt ggctttatcc 120
 tctatagttt tctggagttt taacatgacc tccgagatgg aagccatttg atcttttaag 180
 gccgatagat tgaccttcac ctgttcctgc acgccctctt cattatccat tnttctggat 240
 cgagtgttat agggatgcct tgggtgtttc ttagttatga tgaaattcct aaagaaataa 300
 acaaagggtga gtatgccacc aaaacatgaa tatgcaaagt aatgatcgga gcacttggat 360
 ccaccccaag ggtttttaga taacgtgatg agttcagaaa ttctcattnt atacaaagac 420
 caatgctttc atctagccac agatatacaa aggggtgtaca agagaaccta acg 473

<210> 33588
 <211> 216
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33588

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 gctctgatgc cgcatagtta agccagcccc gacaccggc aacacccgct gacgcgaacc 120
 ccttgccgnc gcatcgaata taaactccca tactgtctgc tataccaagt actaccggtg 180
 agctcggact ccactcgtca ttccacggac taaacg 216

<210> 33589
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33589

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 gaagcatgtg taacacttgt tgtaactttg atgaatgaga gtcttgtgag acacaactca 120
 aagttcaact tctctccctt tttttcttcc ttcaatttgc tgctccccc tctctctttc 180
 tctccctctt tcttttctc cattgaagca tccttccaag cttcttatcc aaggctcatc 240
 ttggtggtga agctccttct tccatggctt attccctagt ggatggcgcc tcctcttccc 300
 tcttctnctt tgtcttccgc tgcactcca tgggtgaaaa ccaccattaa aggacctcat 360
 tgaagctcan agatccagcc tccatagana gtcacaagc aagcttccat c 411

<210> 33590
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33590

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 attctccacc atggagatgt agcgaagac acatgagaag aggtgagagg aggtgccatc 120
 cactaaggaa taagccatgg aagaaggaa ttcaccacca agatgagcct tagataagaa 180
 gcttggagat gatgcttcaa tggaggaaaa gaaagaagga gagaaagaga gagggaggag 240
 caagacattg aaggaagaaa aagggtgaga agttgaactt tgagttgtgt ctcaacagac 300
 tctcattcat canagttaca ataagtgtta cacatgtttc tatntataga ctacgtagct 360
 tccttgagaa gctntcttga gaaaacttcc ttaagaagct tctttgagaa aatntccttg 420
 ggaagctaga gcttagctac acacaccct ctcataacta agctcacct 469

<210> 33591
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33591

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ataattcttg acgctagaaa ttgaatacag aagctctcac canatttaaa tgacaataac 120
 tttttactca gaagtctgat tgtgtcccgt aatatactta gatgctcaaa attgaaaaca 180
 gaagctctga gcaaattcaa acgacaatag cttttgactc ggatatccga ttgagtcatt 240
 taataattcg agacgctcan aattgaatac agaagctcta agcanattca aatgacaata 300
 actnttgact cgaatgtccg attgagtcatt tntataattc gagacgctca anattgaatg 360
 caggagctct caccannatt aatgacaat aactntntac tcagaagtct aatgggtgtcc 420
 tgtaatntat cta 433

<210> 33592
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33592

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 ggacatccga gttaaaagtt attgtcggtt gaatttgctt agagttactg ttctcaattt 120
 cgtgcgtctc gatatactac aggactcaat cggactttcc agcaaaaagt tattgtcatt 180
 tgaatttggt gagagcttct atattcaatt tcgagcgtct tgaattatta agggagtaaa 240
 ttcgacatcc gagtcaaaat tttttattgt ttcaatttgc tgagagctgg tgtattcaat 300
 ttcgagcgtc tcgaattatt aaatggttca atcggatata anagtcaaaa gctattgtcg 360
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 aatcagacat ccgagtataa a 441

<210> 33593
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33593

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 agcaagattg gatgagggga agtgtgattt tcgaaatctg cacttatgca gaattttgct 120
 gtcaaaatat gtgcagcagg attntagctt ggtgcagaaa atgcttgtgt gtgggttgct 180

<210> 33596
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 33596

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 tggeatcatt tctggcgcta aactgttggg agttggaagc catcttctca attaaatttc 120
 tggettccagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tctccatatt gctgagtcct tcataaaaat attggagaag aagctgctct gaaatctgat 240
 ggtgggggca actggcacat agtttcttaa atctctccta gtactcatac aggctctctc 300
 cactaagttg tctaatacct gagatatact tctgatggc tgtggctctg gaagcaggga 360
 aaattgtttc taagaatact ctcttaaggt catccagct cgtgatggac cttggagcaa 420
 ggtaatacaa ccagtccttt gccactccct ctaatg 456

<210> 33597
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33597

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 aacgaataaa agaggggagag aagctgaact ttgaagtgtg tctcataaga ctttcattca 120
 tcaaagtgac aacaagtgtt acacatgctt ctatttatag actaggtagc cttcttgaga 180
 tgctttctta agaaaacttc cttgagaagc ctctttgaga aaactttctt gagaagctag 240
 agcttagcta cacacacca ttcaanaact aagctcacct ccttgagaag ctatcttgag 300
 aagctagagc ttagctacac acacccatct aataactaag ctacactcct taagaagcta 360
 gagctcagct acacacactc atctaaaaac taagctcacc tncctgacga aatacatg 418

<210> 33598
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 33598

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gagacaaaag ctggtgcaaa tcaaaactcc gatattcat ggggtggaatg gatgaatgca 120
tgaaggaatg catataacac agatgcaatc taggaatgcg ggggtccggg gaattcgccc 180
ccttcttaga cacaacgtct aggggtagca aagtgcccc aactacgttt ttaagaaggc 240
gacacggacc ctccgttggt ttgtttacac aagggatcaa gacagaacct atatgcatg 300
cctatgcaaa agacacaatg cgggaatgta cacagtatga caatattcac tgaacataag 360
caaaagggtat tatgatactt atgcatggca gtgtgaaaaa tggcatgcac cgtgtttgct 420
cgtgcccccta t 431

<210> 33599

<211> 407

<212> DNA

<213> Glycine max

<400> 33599

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ctttcttgaa cttgcaaacc aacaatctaa gtggttccat accaacaatcc attgacaact 180
tgaaatttct ctttgaactc caactcaggg aaaacaaact aagtgggtgtg ataccaagca 240
tgccgggggag tttgcaggtg tcaactgaatc ttagtagcaa ccactttagt ggtaatactc 300
ccaacaattt tggttaattg gatagcctgc aagtcttga tctctcaaat aacaaatttc 360
ctggtccaat tccaaccaa ctaactggaa tgtcagctct gacatag 407

<210> 33600

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33600

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ggaatgggtt taggcaaaga caacggcggc ataactagcc tgataaatgc caaaggaaat 120
cgtgggaagt atggtttaag ctataagccc actcaggcgg atatgaagag aagcaccgcg 180

ggaaggaaaa gcagtggcca aagctcgag ttgagacaag aaagtgaagg aagccccccc 240
 tgccacataa gcagaagctt tataagcgca ggtttgggag acgaagggtca agtgggtcgcg 300
 atatacgaag atgatgttcc gagtacattg gatttgggtac gaaccatgcc ctctgatttc 360
 cagctgggaa aatggcgagt ggaggaacac cccggcattt acgcaacgag cataatgtaa 420
 acctttacgg ttntaaaagc tctatagtt 449

<210> 33601
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33601

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 ttacaaaata aaagaactca aataatagac gtctaataa ttaaaaaaat atataatctc 180
 ataaaataat cttatgtata attacataac ataaaatagt aaaatagtaa aatagtaaaa 240
 tagatgagac tcaacttctt ataatgctct ttattttcag caatgaagct aataattatt 300
 cgaaagatac attgcttggt ttgcagctat acttatgctg aataataaat agacgacgta 360
 cctcttagca agtcatctag gcgtacttct tgacatatca tnccatgaat at 412

<210> 33602
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 33602

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 tgggcgtatt ctttgaaaga ttcgtgctcc tttttgcaca cattctatag ctgcattcta 180
 tccggaacca tatcagaatt gtactgatat tgccaaacga aggcaaccat tacgtccttc 240
 caagaatgaa ctcggaagg ttccaagta gtataaccagg tgacaactgt cccagtaaga 300
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<223>      unsure at all n locations
<400>      33603
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<210>	33604
<211>	405
<212>	DNA
<213>	Glycine max
<400>	33604

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<210>      33605
<211>      438
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
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<400> 33605

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tttgagaaaa attccttgag aagctagagc ttagctacta cacaccctc tcataactaa 120
gctcacctcc ttgagaagct tccttaagaa gattcctaaa gaagctagag cttagctaca 180
catacctctc taatagataa gctcaccttc gtgagatgag aagctagagc ttacctacac 240
accnctata atagctaagt tcaccncat gacaaaatac atgaaaatac anaaaanaat 300
ccctactaca aagactactc anaatgcctc gaaatacaag gctaanacc tatactacta 360
gaatgggcaa aatacaaggc ccaaacgaag gaaaacctat tcaatattac caagataagc 420
gagctctact tagccatg 438

<210> 33606

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33606

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atttacctgn gtcaacttta tcagagaaaa atcagacacc tttgaagtat tcaaagagtt 180
gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaattacga gtgatcatgg 240
cagagagttt gaaaacagca agtttactga attctgcaca tctgaaggca tctctcatga 300
gttctctgca gccattacac cacaacaaaa tggcatagtt ganaggaaca acaggactct 360
gcaagacgct gctanggtca tgcttcatgc caaagaactt ccctataatc tctgggctga 420
agccatgaac acagcatgct acatccacaa cagagtcaca cttagaagag ggact 475

<210> 33607

<211> 441

<212> DNA

<213> Glycine max

<400> 33607

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Debrief

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33612

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 caaccccatg agagaagaat gagtcttctc tatctcattt tggtctgtaac tcatctcatc 180
 tatgtaacga ctgcacctt ctacatgttc attagaaaac tgatataacc aaaaacttta 240
 ttttacctca tgtacaactc tccacatcaa ttcatttatg aacacacata tgacattttc 300
 acatttaaca aaccatcatc taaaacctca caacttcaac gtaatgcac tatacactaa 360
 tatcaactga atagagccat gtattctggg cactacaaca tgttatcata agatacaaca 420
 tcatcagcac taaacacca actatttaga actatataca cactc 465

<210> 33613
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 33613

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 gaacttcccc tatcatagac tgggagaaag cacatagaaa acaaccgaaa tgtccagtca 180
 agaatggcaa aagtcaaaag gaataagata acgaaaaaag ctctgacaag gatcaatgat 240
 aacagaaaaa tgtcataagg tcttgaccga catatctgaa caatcaaag cacctatgac 300
 aaaagaagaa ggccacacacc taaaggcttt ccttgatata acaaaccgg cgctacactt 360
 tcgccgcata aaa 373

<210> 33614
 <211> 578
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33614

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naacagagca	aacnnnaaat	ttatggggta	tttgcgatga	gagaccgcg	tatagcgtat	180
atataccatc	atgtacctcg	actttaggaa	attaaatcgt	caccatcaaa	aagggggaga	240
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caattcaaaa	cgatcatg	cttatcaagt	ctaattctag	acaaaaaacc	atgaaattca	360
agagacatga	ccaagatcaa	ctctacagac	gtatgaatgg	acactccagt	tgaaacagca	420
aaccgtctgg	caaagaata	taagttaaca	cgtctttaca	agagacttac	tctctgcgaa	480
tcgactgcta	gacgattaaa	tcgaccacca	ctgcgccaaa	acgaattcga	actatctata	540
gcagctatta	cacatctgaa	ttcaatctac	aatgcgcc			578

<210>	33615
<211>	427
<212>	DNA
<213>	Glycine max

gttataagta ttttatgcta agcatagcta ataaatac

458

<210> 33621
<211> 329
<212> DNA
<213> Glycine max

<400> 33621

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gaaagagacc tcatcaagaa ctcaatcagt ttcttgatgt acgcctgata gggatatcaac 180
tagagatccc tagtttccca ttctccctc agctggcgaa ttaccaaggc tgagtctctg 240
tacactataa gcaatatgac attaaagtca attgccactt ggattccgac ggcacatgcc 300
tcatactcag ccatagtatt cgtgcaatc 329

<210> 33622
<211> 444
<212> DNA
<213> Glycine max

<400> 33622

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cgattacaca atgcacattt tgaattcaaa tcttaatagc tgttgtaaatt catttttggc 120
cactggtaat cgattacatc ctctggtaat cgattacat agagtaaatac tcttgaaaaa 180
gactttttta cttgcatctc ttggccaaac cttttgctac ttcaattaag aattcccttc 240
ctatttaata tacccttctt aagactctag agactgtctt gatcatccat cttgaatatac 300
tttaattact ttgtcttgaa taaagctttg agaagcatgt gatccttctg cgatcatgaaa 360
acattcacct tgatcctttg tctacaatct ccgcctgtgc gatgatgaca atacttgaaa 420
taagacaagc tatatacaat atga 444

<210> 33623
<211> 253
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33623